SERVICE MANUAL

(without price)

ELECTRONIC CASH REGISTER

TE-7000S/8000F/8500F

(EX-468/568/569)

FEB. 2003

TE-7000S

TE-8000F

TE-8500F

CASIO®

INDEX

Ver.3 : Aug. 2009

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To prevent malfunctions caused by the weak batteries, charge the memory protection batteries for over 12-hours before installation or after a long-time vacation (over 30 days).

- **Before installation, initialize the terminal and leave it turn on over 12-hours.**
- **After a long-time vacation, initialize the terminal and restore the program data if the terminal is in malfunction, and leave it turn on over 12-hours.**
- **Over 48-hours charging makes the batteries fully charged.**

1. SPECIFICATIONS

1-1. Electrical specifications

		120 V	220 V	230 V	240 V
•Power consumption	In operation Max. stand-by Max.	0.9 A 0.15 A	0.6 A 0.15 A	0.6 A 0.15 A	0.6 A 0.15 A
•Memory protection	Back-up battery Recharge time	VL3032/SGB (Vanadium lithium battery) Back-up period 30 days (25 °C) Battery life Replace the battery every 5 years. 48 hours (full charge)			
•Clock & Calendar	Accuracy Auto calendar	Within ± 30 sec. per month (25 °C) Effective until 2099 A.D.			

1-2. Environmental specifications

• Operating temperature	0 °C ~ 40 °C
• Operating humidity	10 % ~ 85 %
• Storage temperature	-20 °C ~ 65 °C
• Storage humidity	10 % ~ 85 %
• Vibration strength	1.5 G (The machine must be in the carton box)

1-3. Main components

• CPU	Name Number of control bit Internal RAM	HD6417706AF133 32 bit 16 KBytes
• DRAM	Name Capacity	MD56V62160E-10TAB0 64 Mbits (8 MBytes)
• Flash ROM	Name Capacity	MBM24DL324BE90PFTN 4 MBytes
• I/O controller	Name	uPD784215AGC-XXX-8EU
• Gate array	Name	uPD65945GJ-P16-JEU
• LCD controller	Name	S1D13705F00A100
• ARCNET controller	Name	COM20019ILJP
• Switching power supply	Name	SPS-468
• LCD unit	Name	KCG057QV1DB-G00
• Inverter unit	Name	PS2-70052-001
• Themal printer	Name Print method Head specification Paper cut Paper supply method	M-T203A-001(receipt) M-T203-001(journal) Impression heat line dot Total dot number : 432 dots/dot line Dot pitch : Length 8 dots/mm Wide 8 dots/mm Auto-paper cut Drop-in paper loading
• Roll paper	Type Size Roll diam Thickness	Heat-sensitive paper 57.5±0.5mm ϕ 83 or less 75±3µm

1-4. Duration of Life

• Printer head	50 Km (anti-abrasion)
• Printer mecanical	6,000,000 hours
• Printer cutter	600,000 hours
• LCD	36,000 hours
• Backlight	36,000 hours

1-5. Drawer List

Type	Drawer Name	Specification	TE-7000S/TE-8000F				TE-8500F	
			B	D	G	C	D	C
M	DL-2783	D-19BC-B84M-9*	X				X	
M	DL-2784	D-19BC-B84SM-9*		X	X			
M	DL-2424	D-19BC-B55SM-9*				X		X
M	DL-2524	D-19BC-B64SM-9*				X		X
L	DL-3616	D-11BH-B65SS-9*				X		X
L	DL-3617	D-11BH-B65S-9*	X					

Note : Country code

B : Other countries
D : England
G : Germany
C : U.S.A./Canada

1-6. Option List

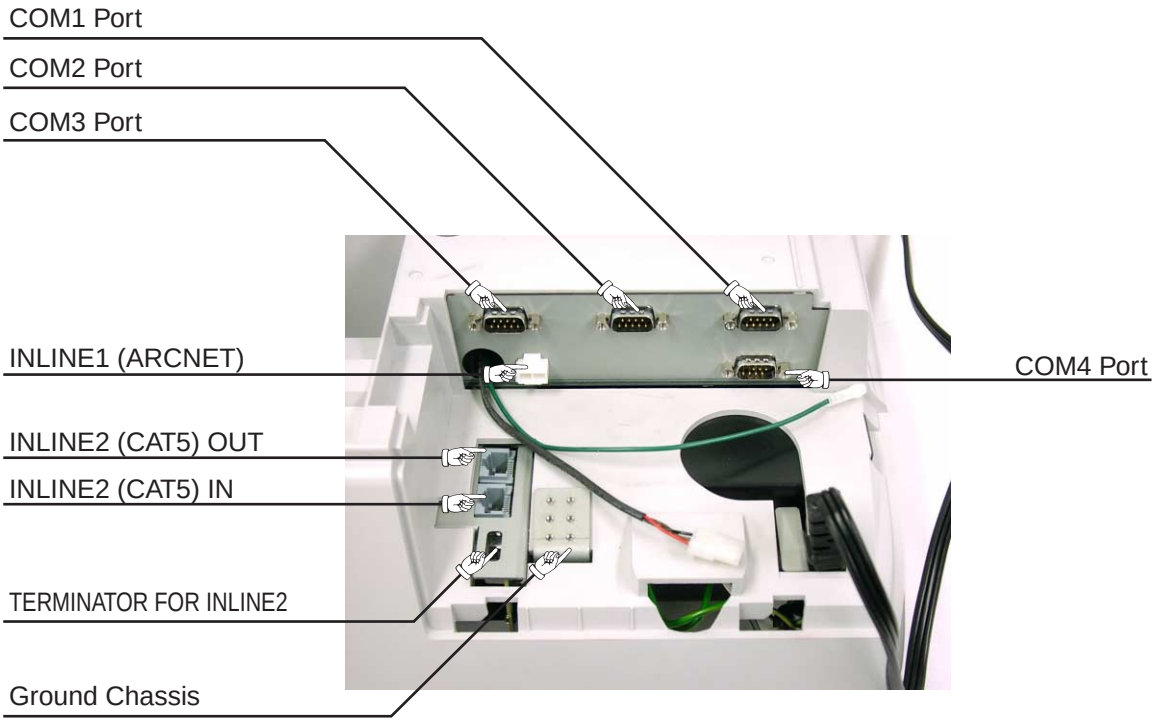
DEVICE NAME	MODEL	NOTE	Applicable
• Clerk key kit	CLK-K22	Dallas button for six people + a probe	Common
• Sheet holder kit	SH-KIT10	A total of one sheet for No.3 &4 (including two sheets in solids)	TE-8000F only
• Multi drawer kit	MDL-11	Number of additional units = 3	Common
• Remote display	QT-2163D	Com3 port only	Common
• Option pole	QT-2061S	For Remote display	Common
• Remote display cable	QT-2162S	Length 5m	Common
• PC cable	PRL-CB-2	Com1 port only	Common
• Waterproof cover	WT-77		TE-7000S only
• Waterproof cover	WT-78/79	WT-78: for stroke / WT-79 : for touch	TE-8000F only
• Waterproof cover	WT-62		TE-8500F only
• Slip printer	SP-1300	Connect to Com2, 3 or 4 Note : The SP-1300 can be connected one unit only.	Common
• Slip printer cable	PRT-CB-8C	Length 1.5m	Common
• Remote printer	UP-250	Connect to Com2, 3 or 4	Common
• Remote printer	UP-350	Connect to Com2, 3 or 4	Common
• Printer cable	PRT-CB-8A	Length 3m	Common
• Printer cable	PRT-CB-8B	Length 5m	Common
• Slip printer/ AC adaptor	AD31U or E	U: 100V/ E: 200V	Common
• Power unit for External Printer	PS-180	EPSON MODEL	Common
• Power cord for power unit	AC-170	EPSON MODEL	Common
• Handy scnner	HHS-15	Com2 port only	Common
• Handy scnner	HS1250	Com2 port only	TE-7000S/ TE-8500F
• Laser scanner	Quic Scan 6000	Com2 port only	TE-7000S/ TE-8500F
• CF Memory Card	SDCFB-xx-505		Common
• Modem	56k External Faxmodem “US Robotics”		Common
• Modem	56k External Voice Faxmodem “US Robotics”		Common
• ISDN TA	ELSA MICROLINK TL-Pro (ISDN)	Only in Germany	Common
• Roll paper	P-5880T		Common
• Conversion kit	CVK-S2/L2/LLL2/FS2		TE-7000S/ TE-8000F

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacture’s instructions.

VORSICHT !
Explosionsgefahr bei unsachgemäßem Austausch der Batterie.
Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ.
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ADVARSEL !
Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandØren.

2. CONNECTOR LOCATIONS



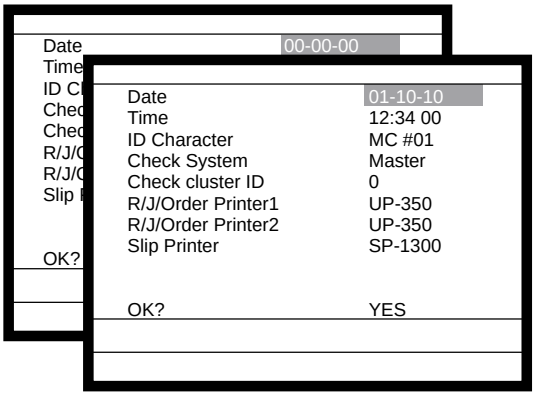
3. Machine Initialization

3-1.How to initialize the terminal

Preparation:

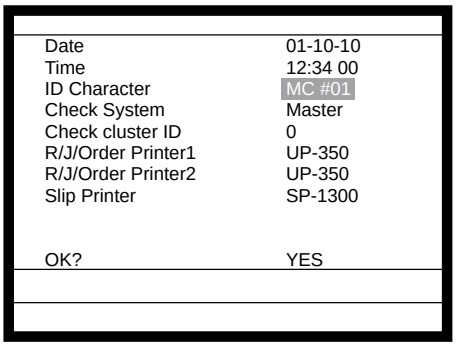
1. All peripheral devices and terminals of this cluster should be turned off.
2. Connect all of the peripheral devices (such as printer, display etc.) to terminal.
3. Connect all terminals by in-line.

Operation:

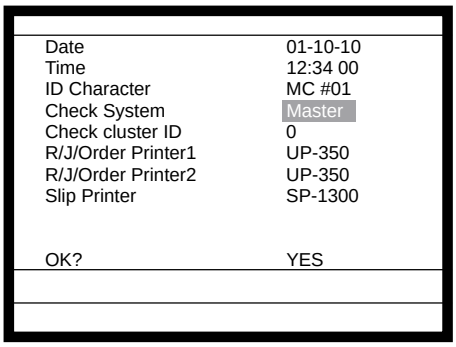


4. Turn on all peripheral devices of a terminal.
5. Turn on this terminal with pressing the Journal feed key and release the key after the “Copyright” window is shown.
6. After releasing the key, enter “20000” (U.S.)/ “10000” (other area: English), “40000” (other area: German), “50000” (other area: French), “60000” (other area: Spanish) and press the <ST> key.

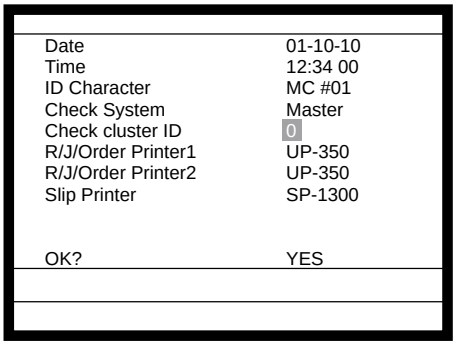
7. Enter the current date (YY/MM/DD order) and time and press the <YES> key.



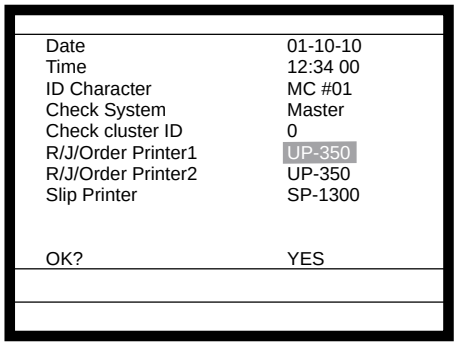
8. In ID character field, the auto-defined ID No. is shown.
   We recommend that you should not change the value.



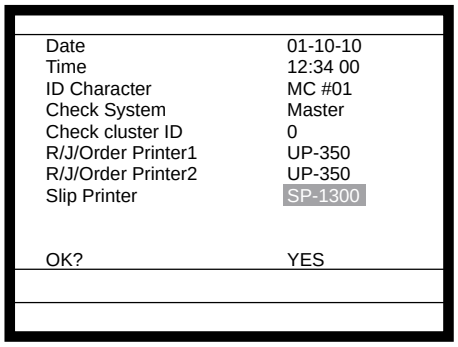
9. In this field, you can select “1. Master/2. Backup Master/3. Satellite/4. Selfmaster.”
   Please select one of these options and press the <YES> key.



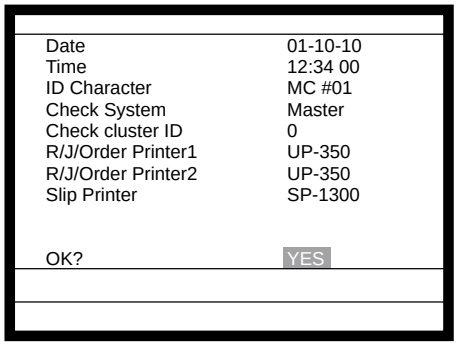
10. In this field, by pressing <YES> the check cluster No, should be set, if your check tracking system are divided in some clusters.
(Enter cluster No. “1”~ “9”, if you use check cluster system.)



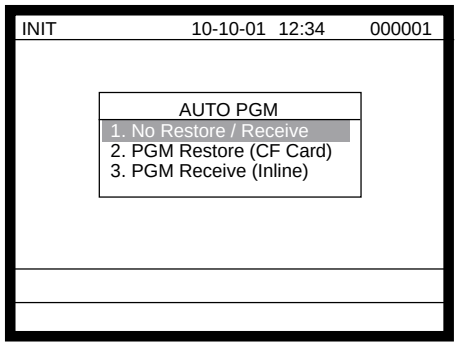
11. In these fields, by pressing <YES> you can select, “1. No/2. UP-350/3. UP-250” for R/J/Order printer.
Please select one of these options and press the <YES> key.



12. In this field, by pressing <YES> you can select, “1. No/2. SP-1300” for slip printer.
Please select one of these options and press the <YES> key.

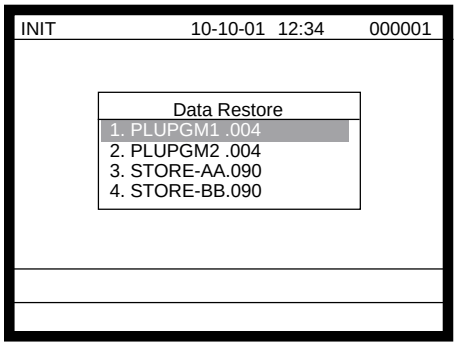


13. Please confirm all of the field and if they are all right, press the <YES> key to proceed the next step.



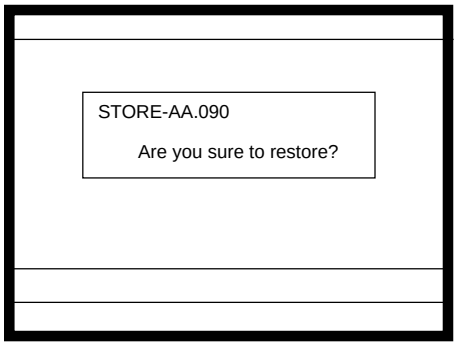
14. If you want to download program data from other terminal or CF card, select the appropriate menu and press the <YES> key and proceed the next step.
If you don’t need to download any program data, just select “1. No Restore/Receive” and press the <YES> key.
If you have another machine to initialize, return to step 4.

Restore from CF card.

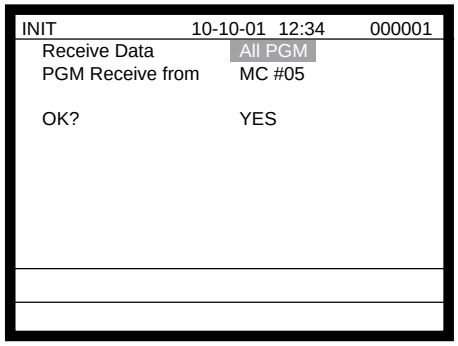


15. Insert the CF card into the slot and select the appropriate file and press the <YES> key.
Please select one of these options and press the <YES> key.

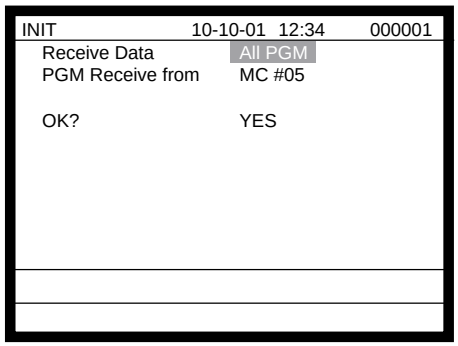
16. After the confirmation window is show, press the <YES> key to proceed restoring.
After completion of downloading, return to step 4 to initialize other terminals.



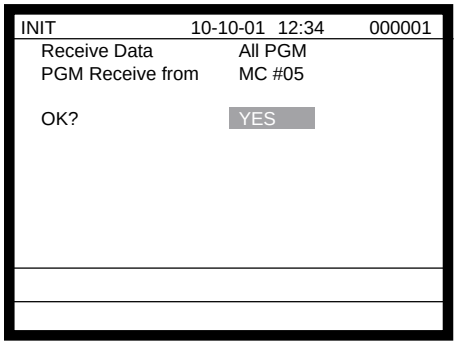
Program receive from other terminal.



15. In this field, by pressing <YES> you can select the receiving contents as “1. All Data (including totalizer)/2. All PGM (program only).”



16. In this field, by pressing <YES> you should enter the source ID number of the data and press the <YES> key.



17. Please confirm all of the fields and if they are all right, press the <YES> key to proceed downloading.
After completion of downloading, return to step 4 to initialize other terminals.

How to initialize the terminal (add/replace one terminal)

Preparation:

1. All peripheral devices and terminals of this cluster should be turned off.
2. Connect all of the peripheral devices (such as printer, display etc.) to this terminal.
3. Connect the added/replaced terminal to inline.

Operation:

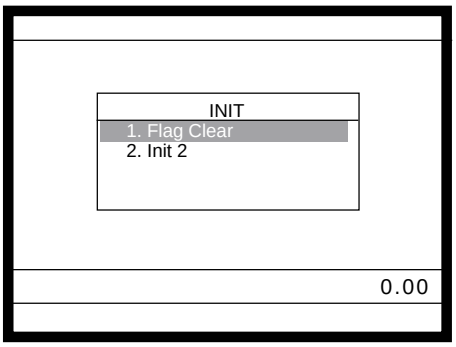
Follow the steps shown on the page 1 to 3.

How to flag clear the terminal (or INIT2)

Preparation:

1. All peripheral devices and this terminal should be turned off.
2. Check the connection of all peripheral devices (such as printer, display etc.) of this terminal.
3. Check the connection of this terminal to inline.

Operation:



4. Turn on all peripheral devices of this terminal.
5. Turn on this terminal with pressing the “Receipt feed” key and release the key after the “Copyright” window is shown.
6. After releasing the key, press the <ST> key.
7. Select “1. Flag Clear” and press the <YES> key.
   The flag clear operation is finished.

Note:

Performing “Init 2” requires password “8888888888” and <YES>.

4. DISASSEMBLY

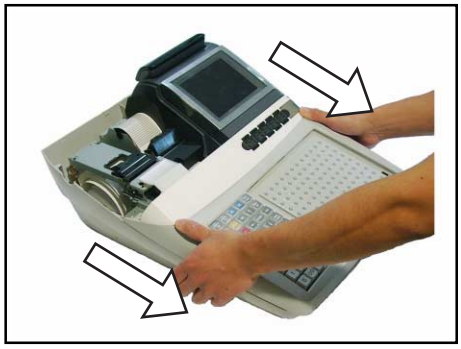
■ UPPER COVER

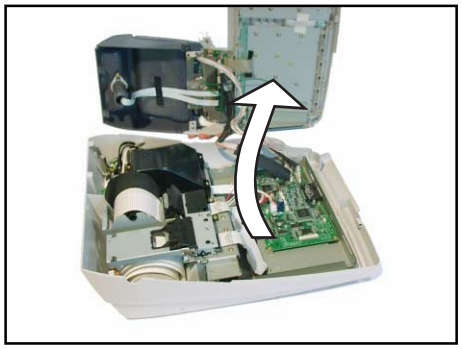
1. Remove the key sheet. (TE-8000F only)

2. Remove the printer cover.

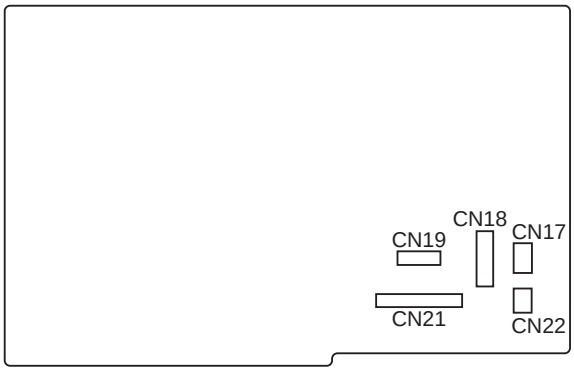
3. Remove the three screws.

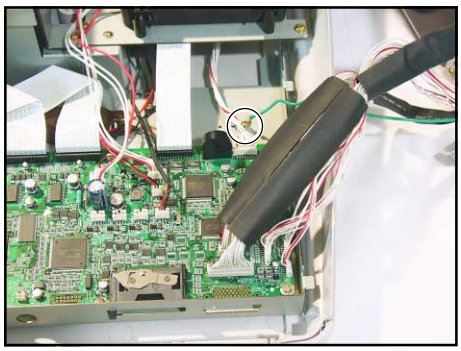
Remove the upper case by sliding it forward.





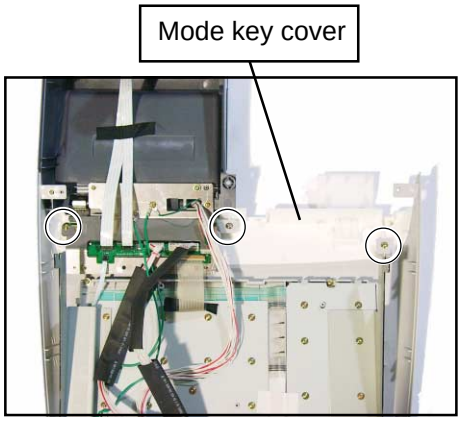
4. Remove five connectors. (CN17, CN18, CN19, CN21, CN22)
   Remove the screws and the earth cable.





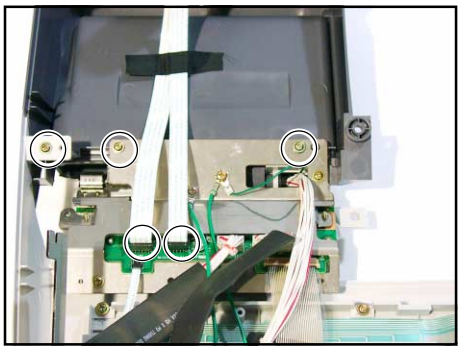
■ LCD ASS'Y

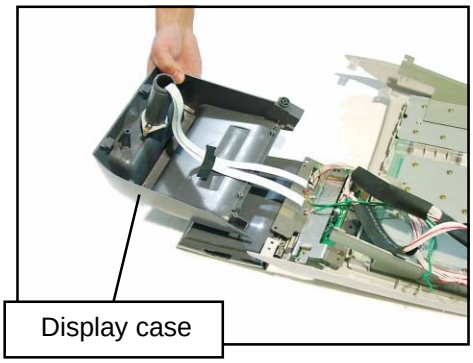
1. Remove the three screws.
   Remove the mode key cover.



2. Remove the hinge cover.

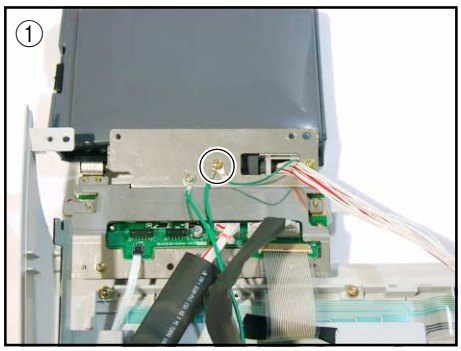
3. Remove the three screws and two FPCs.
   Remove the display case.





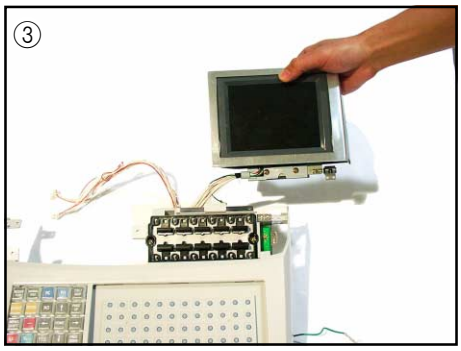
4.

① Remove the screw and the earth cable.



② Remove the two screws.

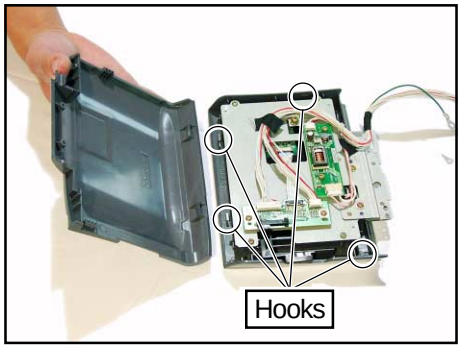
③ Remove the LCD ass'y.



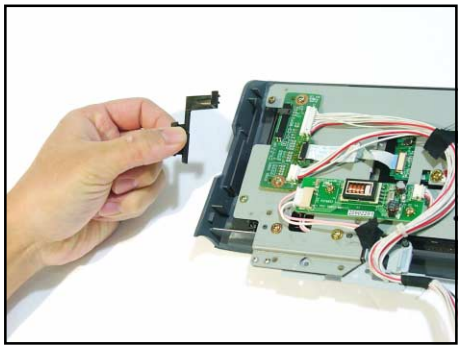
5. Remove the two screws.

6. Remove LCD rear case.

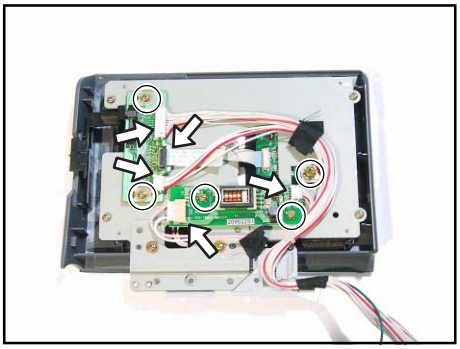
NOTE: Be careful of the hooks when removing the LCD rear case.

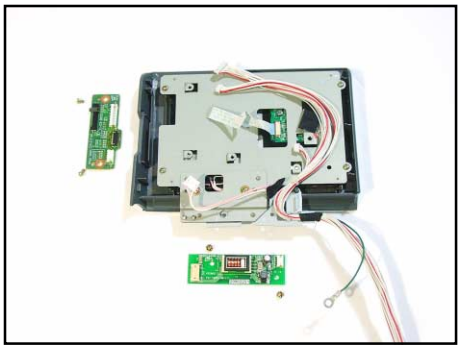


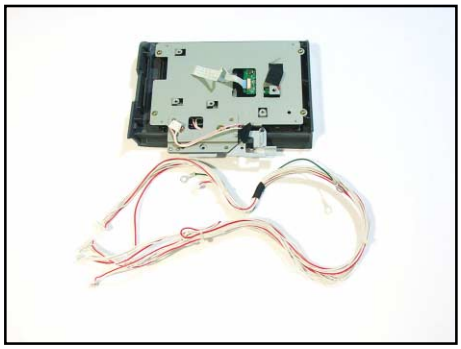
7. Remove the slide knob.



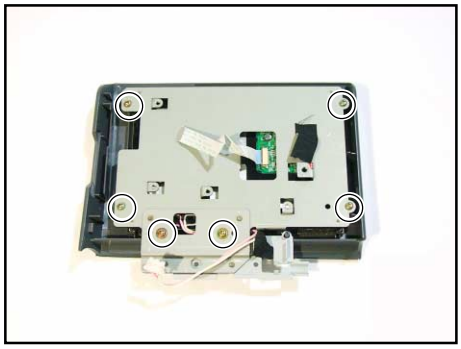
8. Remove the five screws, four connectors and FPC.
   Remove the inverter and PCB ass'y.



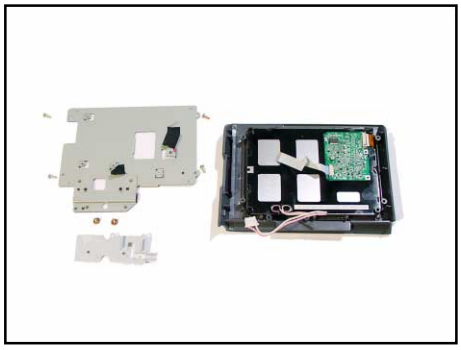




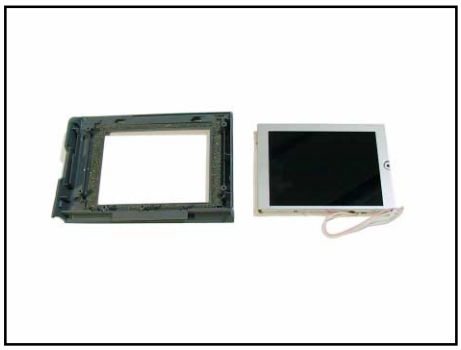
9. Remove the six screws.



10. Remove the LCD chassis.

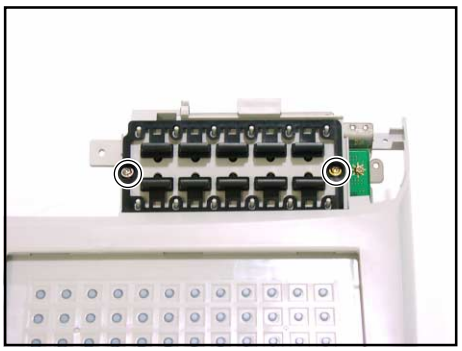


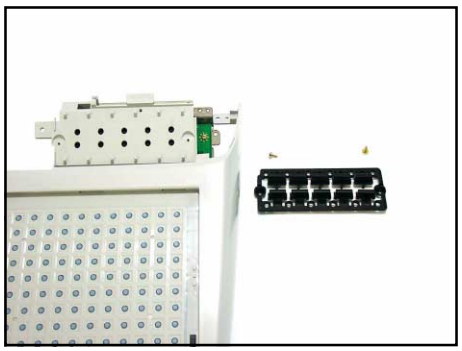
11. Remove the LCD unit.



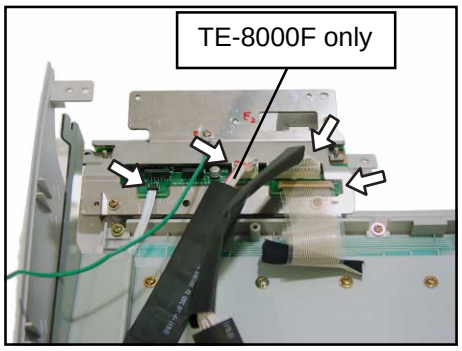
■ MODE KEY

1. Remove the two screws.
   Remove the mode key.

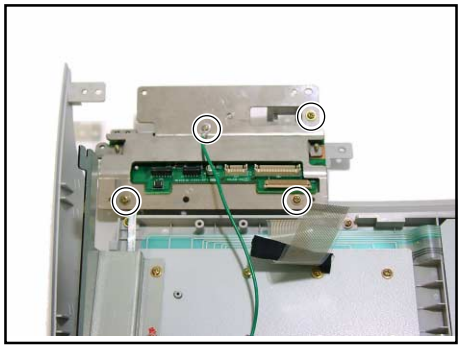




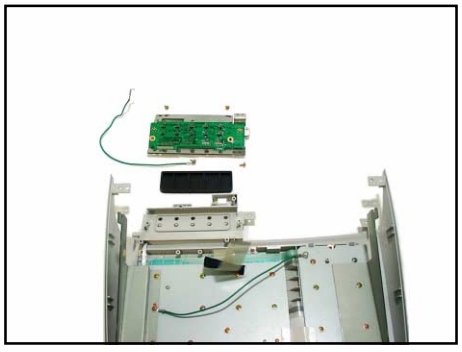
2. Remove the two connectors and two FPCs.



3. Remove the four screws and the earth cable.

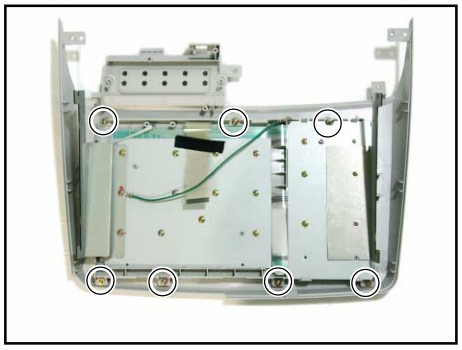


4. Remove the contact rubber and PCB ass'y (E468-E6).

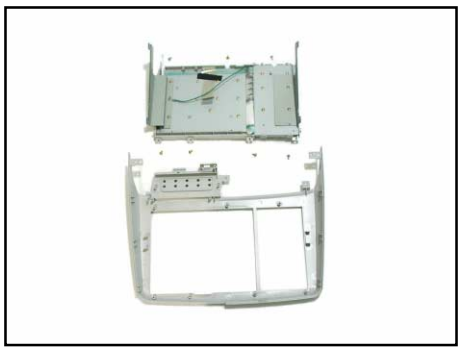


■ KEY BOARD ASS'Y

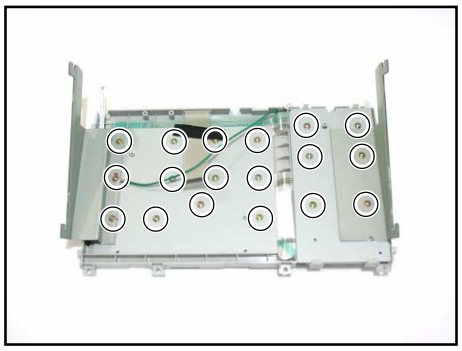
1. Remove the seven screws.



Remove the key board ass'y.

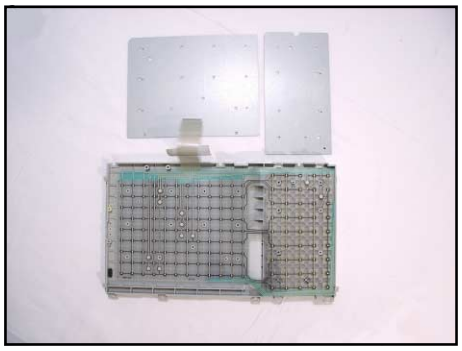


Remove the eighteen screws.

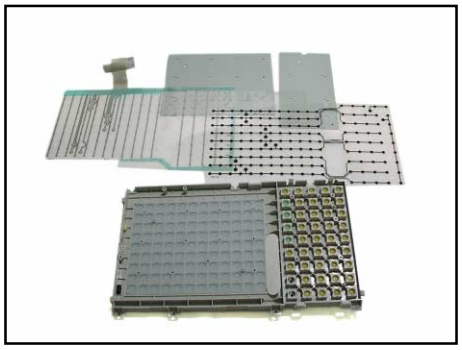


2. Remove the two screws.
   Remove the PCB ass'y (E568-E42).
   (TE-8000F only)

Remove two chassis.

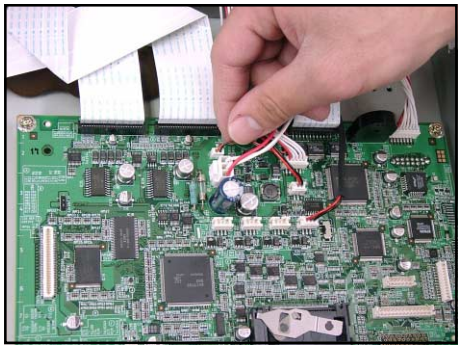


Remove the FPC (E), spacer (E), and sheet.

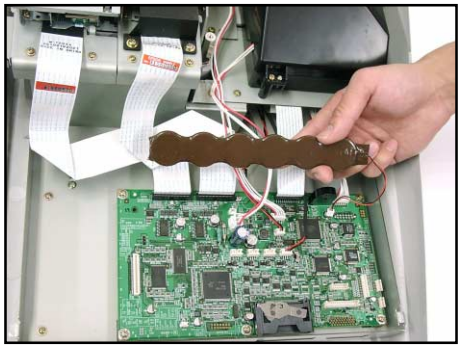


■ BATTERY

1. Remove the connector (CN6).

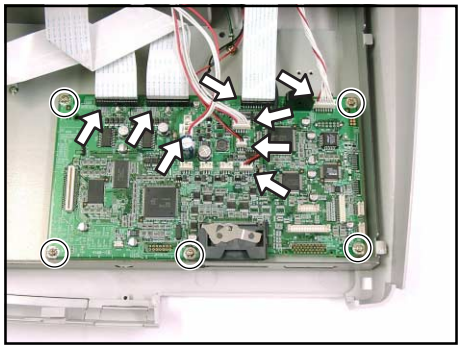


2. Remove the lithium battery.



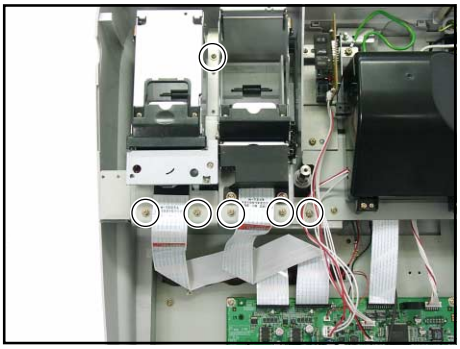
■ MAIN PCB ASS'Y

1. Remove the five screws, five connectors and three FPCs.
   Remove the PCB ass'y (E468-1).



■ PRINTER

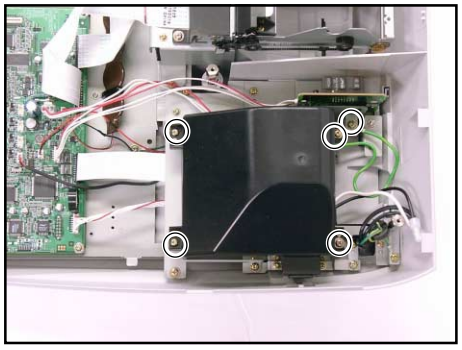
1. Remove the six screws.



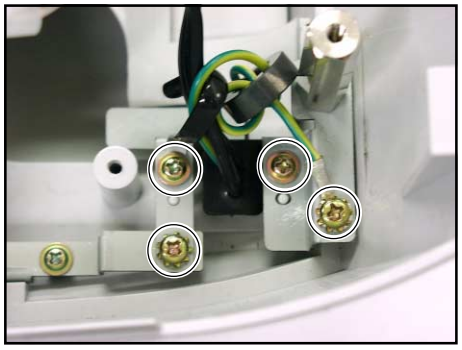
Remove the printer block.

■ POWER SUPPLY

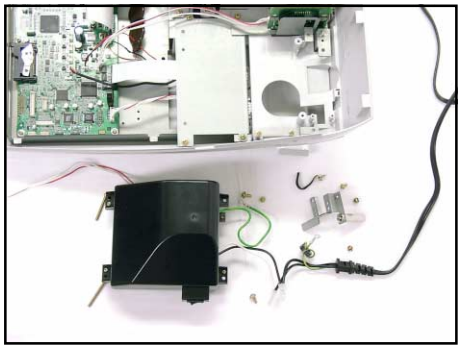
1. Remove the five screws.



Remove the four screws.

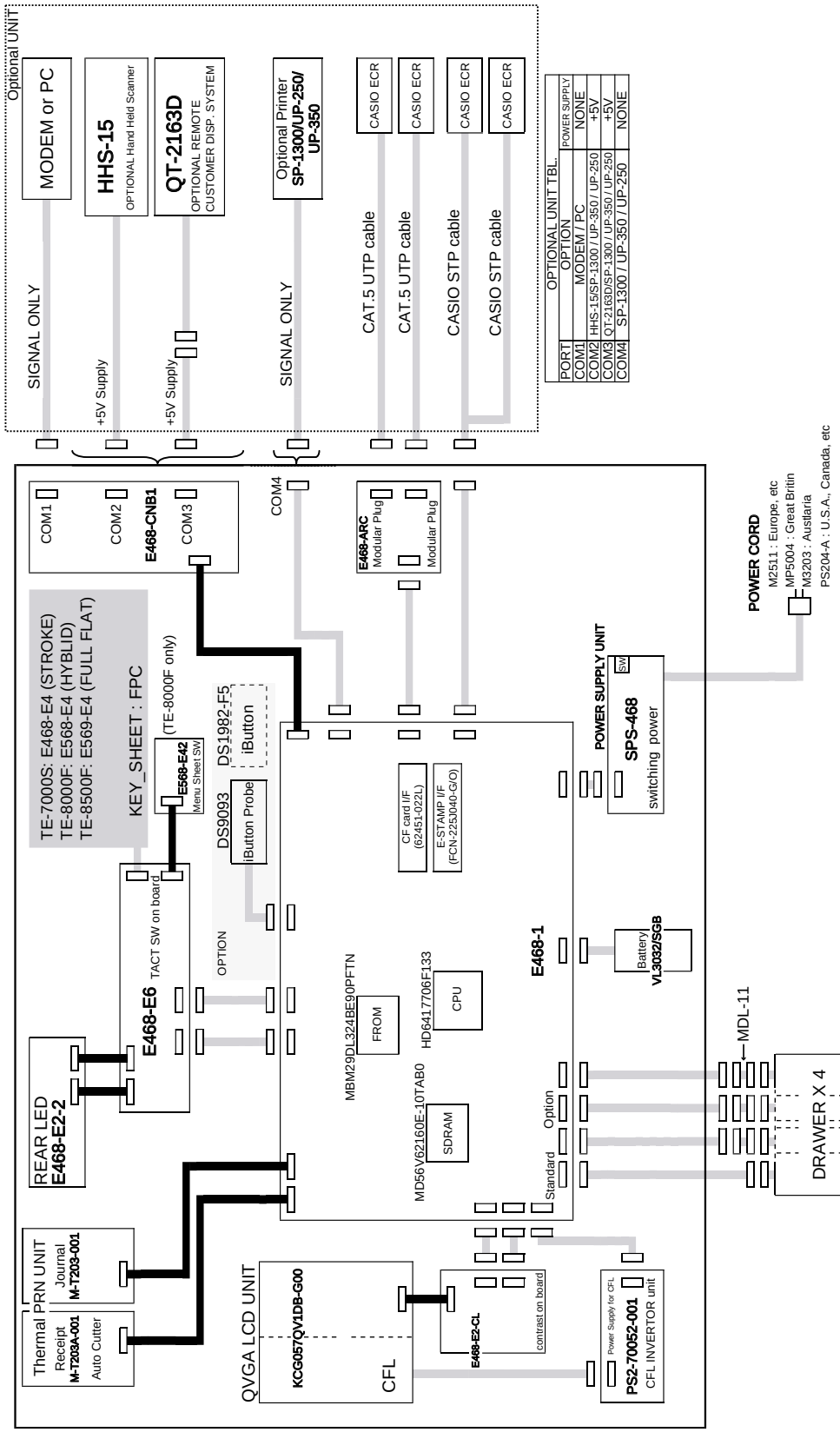


Remove the power supply.

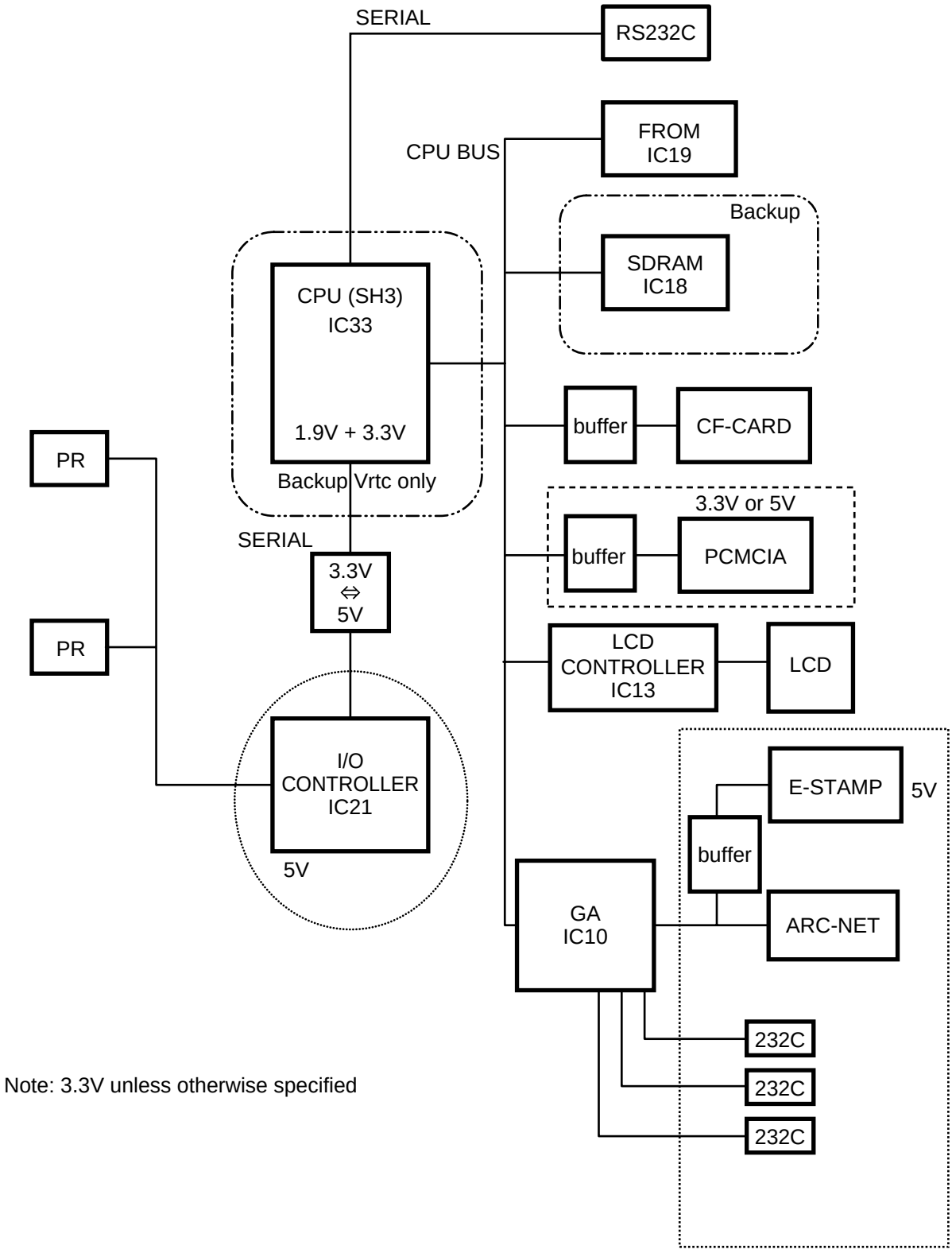


5. CIRCUIT EXPLANATION

5-1. BLOCK DIAGRAM



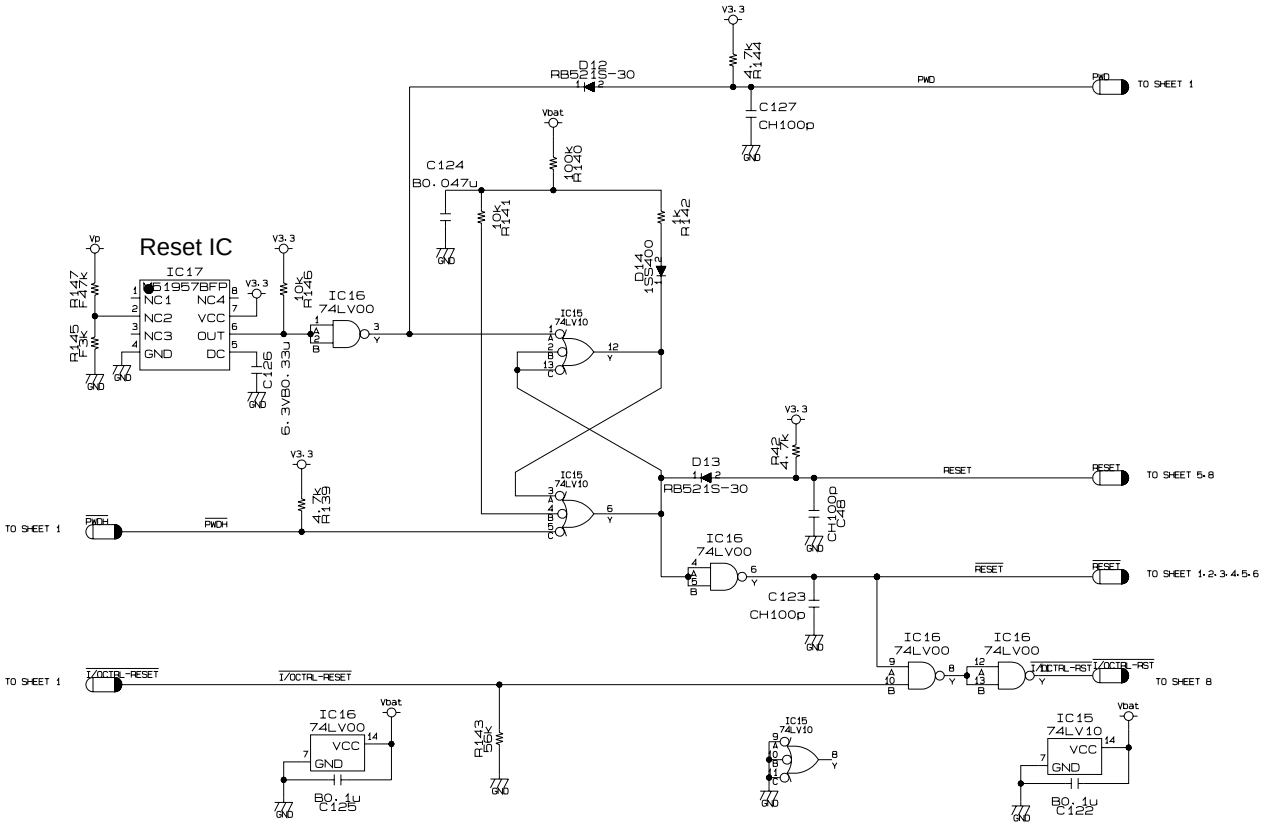
5-2. LSI BLOCK DIAGRAM



Note: 3.3V unless otherwise specified

5-3. RESET CIRCUIT

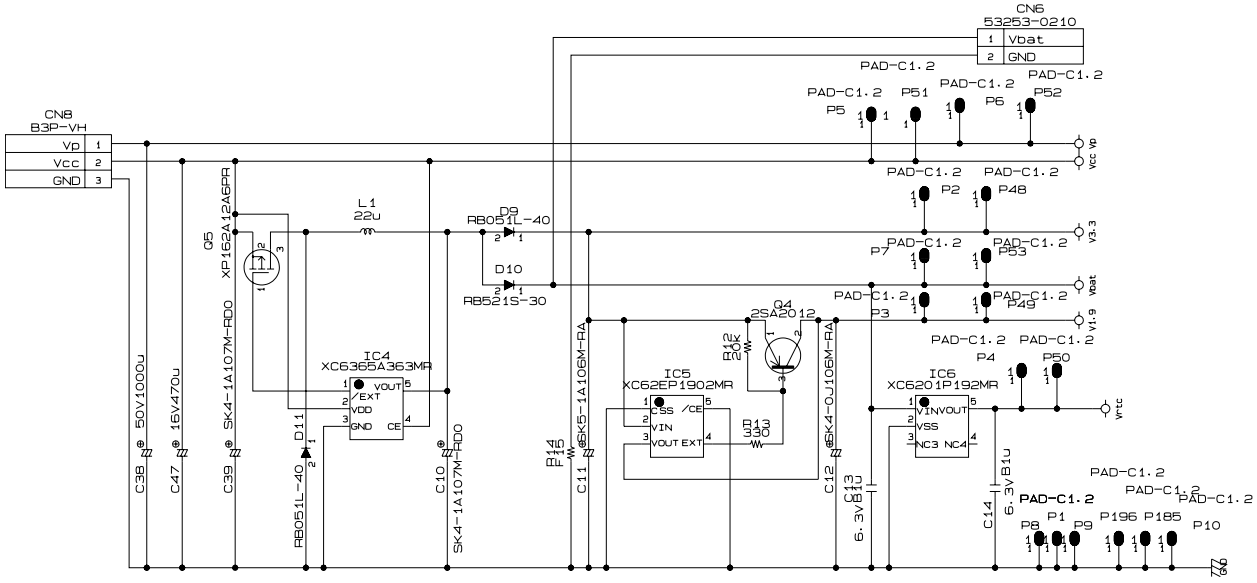
The reset circuit is as follows.



5-4. POWER SUPPLY CIRCUIT

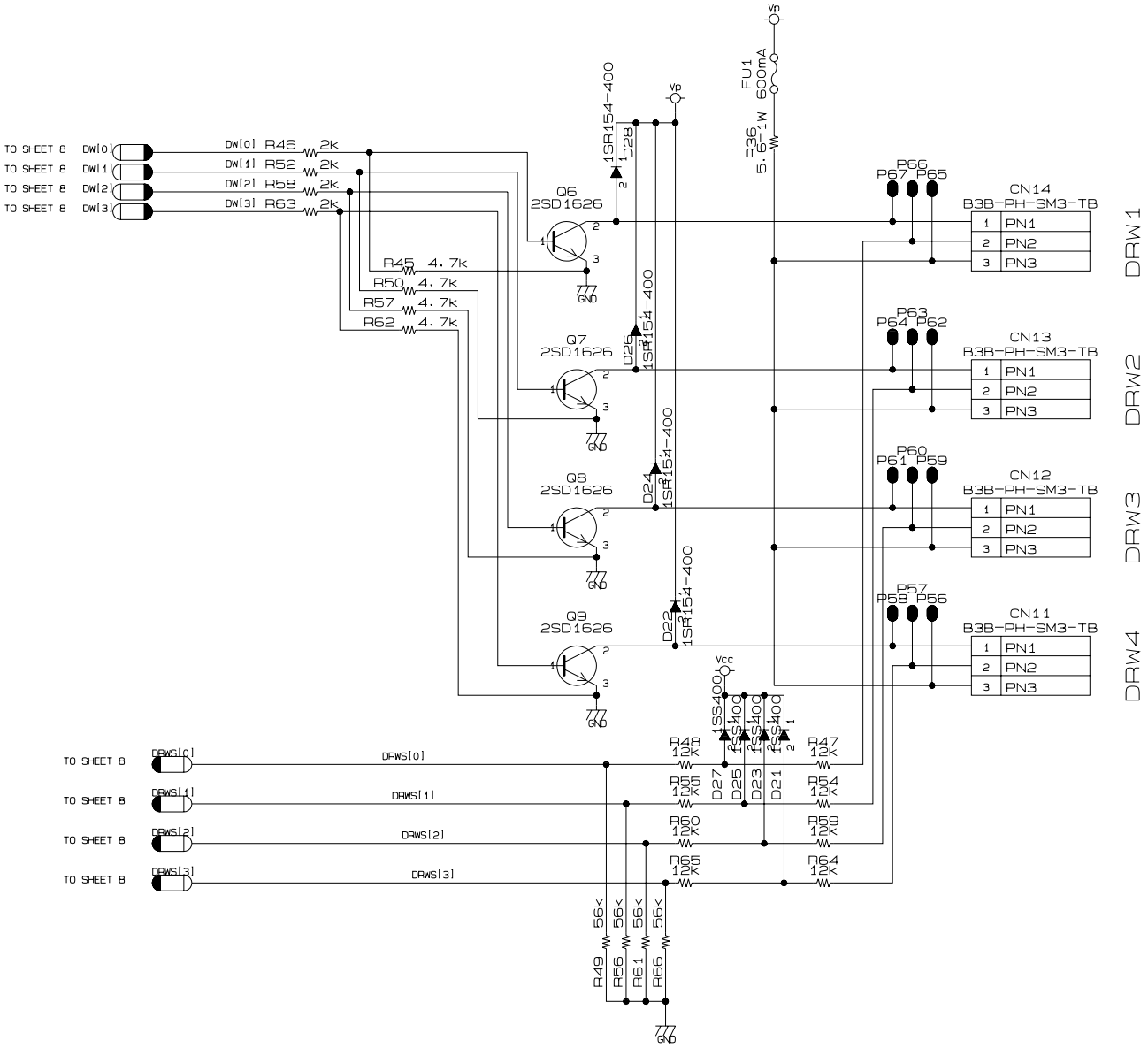
The power supply circuit is as follows.

VP (DC 25.2V):	For the printer control circuit.
VCC (DC 5V):	For the logic circuit power.
V3.3 (DC 3.3V):	For the logic circuit power.
Vbat (DC 3.3V):	For the RAM power.
V1.9V (DC 1.9V):	For the CPU internal power.
Vrtc (DC 1.9V):	For the CPU RTC power.



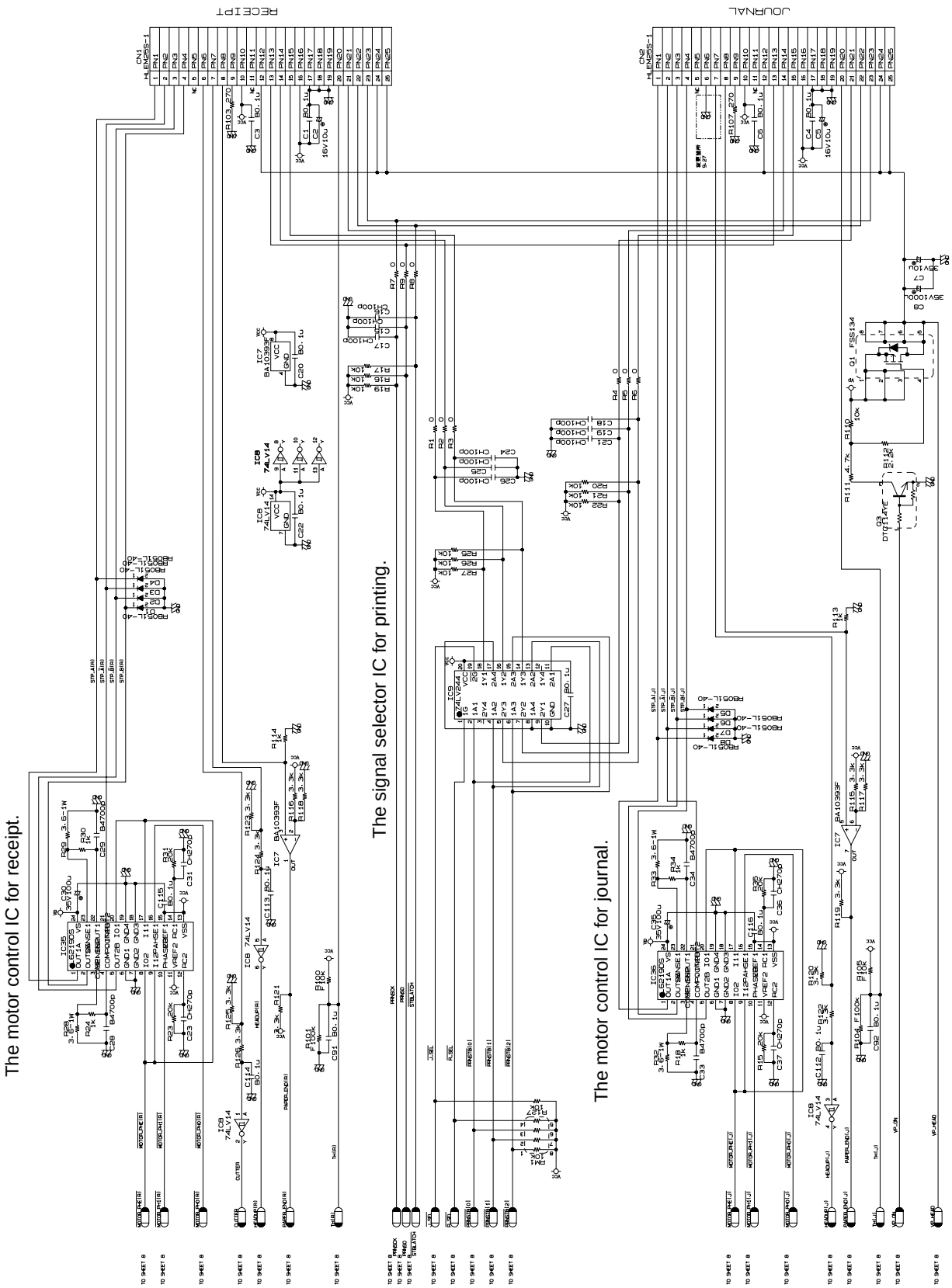
5-5. DRAWER I/F CIRCUIT

The drawer open circuit is as follows.



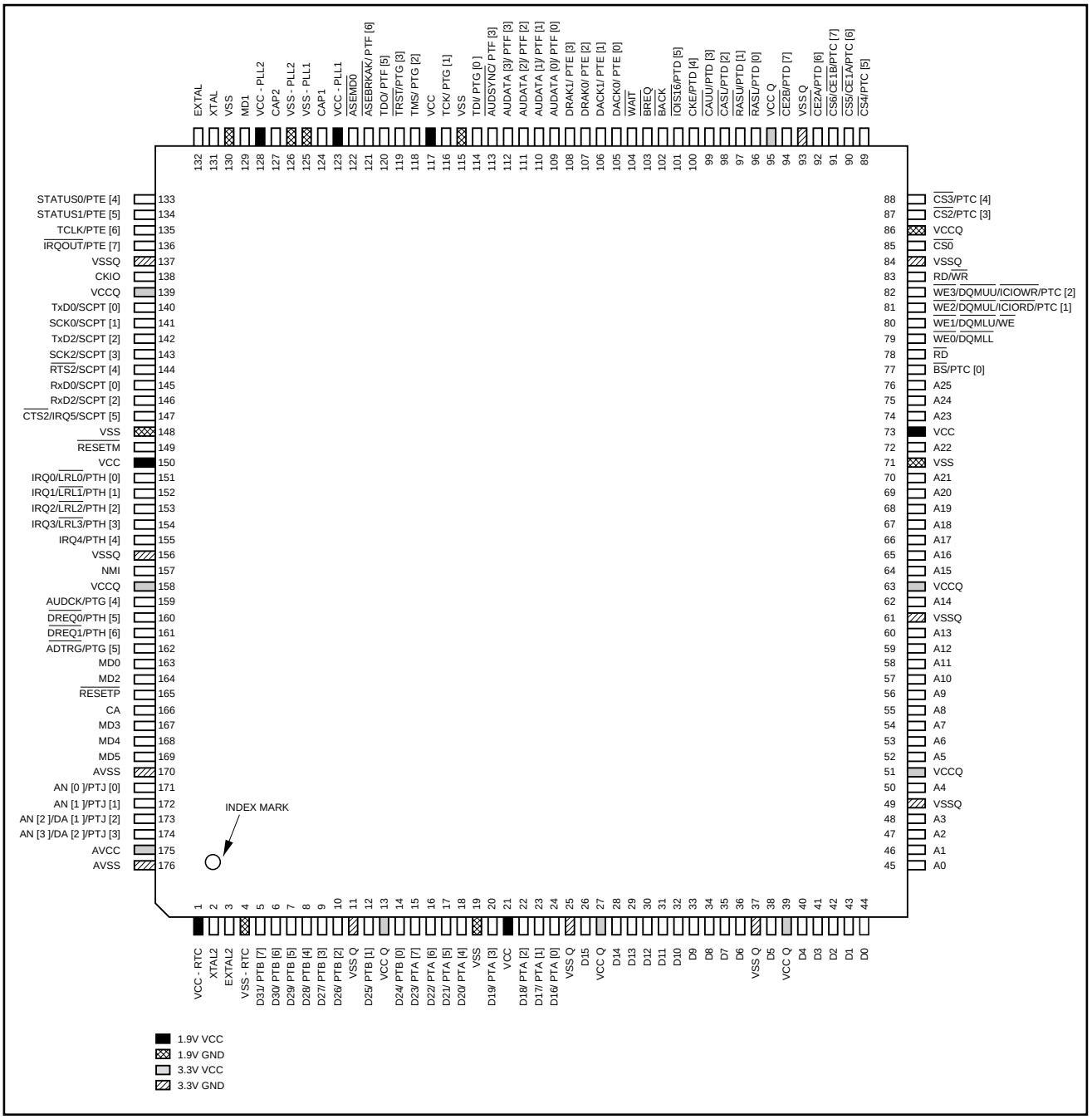
5-6. PRINTER CONTROL CIRCUIT

The printer control circuit is as follows.

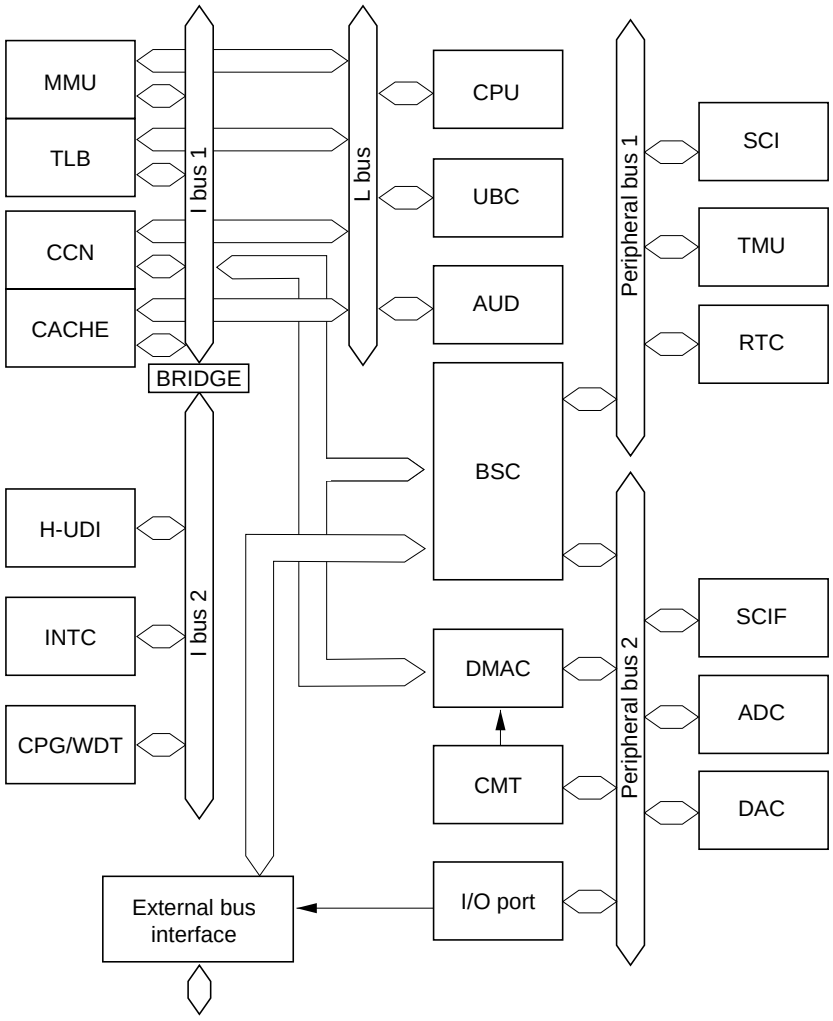


5-7. CPU (IC33)

5-7-1. Pin Assignment



5-7-2. Block Diagram



Legend:

ADC:	A/D converter
AUD:	Advanced user debugger
BSC:	Bus state controller
CACHE:	Cache memory
CCN:	Cache memory controller
CMT:	Compare match timer
CPG/WDT:	Clock pulse generator/watchdog timer
CPU:	Central processing unit
DAC:	D/A converter
DMAC:	Direct memory access controller
H-UDI:	Hitachi user-debugging interface
INTC:	Interrupt controller
MMU:	Memory management unit
RTC:	Realtime clock
SCI:	Serial communication interface (with smart card interface)
SCIF:	Serial communication interface (with FIFO)
TLB:	Address translation buffer
TMU:	Timer unit
UBC:	User break controller

5-7-3. Pin Function

PIN NO.	PIN NAME	I/O	DESCRIPTION
1	VCC-RTC	-	RTC power supply (1.9 V)
2	XTAL2	O	On-chip RTC crystal oscillator pin
3	EXTAL2	IN	On-chip RTC crystal oscillator pin
4	Vcc-RTC	-	RTC power supply (0 V)
5	D31/PTB[7]	IO	Data bus / input/output port B
6	D30/PTB[6]	IO	Data bus / input/output port B
7	D29/PTB[5]	IO	Data bus / input/output port B
8	D28/PTB[4]	IO	Data bus / input/output port B
9	D27/PTB[3]	IO	Data bus / input/output port B
10	D26/PTB[2]	IO	Data bus / input/output port B
11	VssQ	-	Input/output power supply (0 V)
12	D25/PTB[1]	IO	Data bus / input/output port B
13	VccQ	-	Input/output power supply (3.3 V)
14	D24/PTB[0]	IO	Data bus / input/output port B
15	D23/PTA[7]	IO	Data bus / input/output port A
16	D22/PTA[6]	IO	Data bus / input/output port A
17	D21/PTA[5]	IO	Data bus / input/output port A
18	D20/PTA[4]	IO	Data bus / input/output port A
19	Vss	-	Internal power supply (0 V)
20	D19/PTA[3]	IO	Data bus / input/output port A
21	Vcc	-	Internal power supply (1.9 V)
22	D18/PTA[2]	IO	Data bus / input/output port A
23	D17/PTA[1]	IO	Data bus / input/output port A
24	D16/PTA[0]	IO	Data bus / input/output port A
25	VssQ	-	Input/output power supply (0 V)
26	D15	IO	Data bus
27	VccQ	-	Input/output power supply (3.3 V)
28	D14	IO	Data bus
29	D13	IO	Data bus
30	D12	IO	Data bus
31	D11	IO	Data bus
32	D10	IO	Data bus
33	D9	IO	Data bus
34	D8	IO	Data bus
35	D7	IO	Data bus
36	D6	IO	Data bus
37	VssQ	-	Input/output power supply (0 V)
38	D5	IO	Data bus
39	VccQ	-	Input/output power supply (3.3 V)
40	D4	IO	Data bus
41	D3	IO	Data bus
42	D2	IO	Data bus
43	D1	IO	Data bus
44	D0	IO	Data bus
45	A0	O	Address bus
46	A1	O	Address bus
47	A2	O	Address bus
48	A3	O	Address bus
49	VssQ	-	Input/output power supply (0 V)
50	A4	O	Address bus
51	VccQ	-	Input/output power supply (3.3 V)
52	A5	O	Address bus
53	A6	O	Address bus
54	A7	O	Address bus
55	A8	O	Address bus
56	A9	O	Address bus
57	A10	O	Address bus
58	A11	O	Address bus
59	A12	O	Address bus

PIN NO.	PIN NAME	I/O	DESCRIPTION
60	A13	O	Address bus
61	VssQ	-	Input/output power supply (0 V)
62	A14	O	Address bus
63	VccQ	-	Input/output power supply (3.3 V)
64	A15	O	Address bus
65	A16	O	Address bus
66	A17	O	Address bus
67	A18	O	Address bus
68	A19	O	Address bus
69	A20	O	Address bus
70	A21	O	Address bus
71	Vss	-	Internal power supply (0 V)
72	A22	O	Address bus
73	Vcc	-	Internal power supply (1.9 V)
74	A23	O	Address bus
75	A24	O	Address bus
76	A25	O	Address bus
77	BS/PTC[0]	O/IO	Bus cycle start signal/input/output port C
78	RD	O	Read strobe
79	WE0/DQMLL	O	D7-D0 select signal / DQM (SDRAM)
80	WE1/DQMLU/WE	O	D15-D8 select signal / DQM (SDRAM)/write strobe (PCMCIA)
81	WE2/DQMUL/ICIORD/PTC[1]	O/O/O/IO	D23-D16 select signal / DQM (SDRAM) / PCMCIA input/output read/input/output port C
82	WE3/DQMUU/ICIOWR/PTC[2]	O/O/O/IO	D31-D24 select signal / DQM (SDRAM) / PCMCIA input/output write/input/output port C
83	RD/WR	O	Read/write
84	VssQ	-	Input/output power supply (0 V)
85	CS0	O	Chip select
86	VccQ	-	Input/output power supply (3.3 V)
87	CS2/PTC[3]	O/IO	Chip select 2 / input/output port C
88	CS3/PTC[4]	O/IO	Chip select 3 / input/output port C
89	CS4/PTC[5]	O/IO	Chip select 4 / input/output port C
90	CS5/CE1A/PTC[6]	O/O/IO	Chip select 5 / CE1 (area 5 PCMCIA)/input/output port C
91	CS6/CE1B/PTC[7]	O/O/IO	Chip select 6 / CE1 (area 6 PCMCIA)/input/output port C
92	CE2A/PTD[6]	O/IO	Area 5 PCMCIA CE2 / input/output port D
93	VssQ	-	Input/output power supply (0 V)
94	CE2B/PTD[7]	O/IO	Area 6 PCMCIA CE2 / input/output port D
95	VccQ	-	Input/output power supply (3.3 V)
96	RASL/PTD[0]	O/IO	Lower 32 Mbytes address RAS (SDRAM) / input/output port D
97	RASU/PTD[1]	O/IO	Upper 32 Mbytes address RAS (SDRAM) / input/output port D
98	CASL/PTD[2]	O/IO	Lower 32 Mbytes address CAS (SDRAM) / input/output port D
99	CASU/PTD[3]	O/IO	Upper 32 Mbytes address CAS (SDRAM) / input/output port D
100	CKE/PTD[4]	O/IO	CK enable (SDRAM) / input/output port D
101	IOIS16/PTD[5]	I/IO	IOIS16 (PCMCIA) / input port D
102	BACK	O	Bus acknowledge
103	BREQ	IN	Bus request
104	WAIT	IN	Hardware wait request
105	DACK0/PTE[0]	O/IO	DMA acknowledge 0 / input/output port E
106	DACK1/PTE[1]	O/IO	DMA acknowledge 1 / input/output port E
107	DRAK0/PTE[2]	O/IO	DMA request acknowledge / input/output port E
108	DRAK1/PTE[3]	O/IO	DMA request acknowledge / input/output port E
109	AUDATA[0]/PTF[0]	IO	AUD data / input/output port F
110	AUDATA[1]/PTF[1]	IO	AUD data / input/output port F
111	AUDATA[2]/PTF[2]	IO	AUD data / input/output port F
112	AUDATA[3]/PTF[3]	IO	AUD data / input/output port F
113	AUDSYNC/PTF[4]	O/IO	AUD synchronous / input/output port F
114	TDI/PTG[0]	IN	Data input (H-UDI) / input port G
115	Vss	-	Internal power supply (0 V)
116	TCK/PTG[1]	IN	Clock (H-UDI) / input port G
117	Vcc	-	Internal power supply (1.9 V)

PIN NO.	PIN NAME	I/O	DESCRIPTION
118	TMS/PTG[2]	IN	Mode select (H-UDI) / input port G
119	TRST/PTG[3]	IN	Reset (H-UDI) / input port G
120	TDO/PTF[5]	O/IO	Data output (H-UDI) / input/output port F
121	ASEBRKAK/PTF[6]	O/IO	ASE break acknowledge (H-UDI) / input/output port F
122	ASEMDO	IN	ASE mode (H-UDI)
123	Vcc-PLL1	-	PLL1 power supply (1.9 V)
124	CAP1	-	PLL1 external capacitance pin
125	Vss-PLL1	-	PLL1 power supply (0 V)
126	Vss-PLL2	-	PLL2 power supply (0 V)
127	CAP2	-	PLL2 external capacitance pin
128	Vcc-PLL2	-	PLL2 power supply (1.9 V)
129	MD1	IN	Clock mode setting
130	Vss	-	Internal power supply (0 V)
131	XTAL	O	Clock oscillator pin
132	EXTAL	IN	External clock / crystal oscillator pin
133	STATUS0/PTE[4]	O/IO	Processor status / input/output port E
134	STATUS1/PTE[5]	O/IO	Processor status / input/output port E
135	TCLK/PTE[6]	IO	TMU or RTC clock input/output / input/output port E
136	IRQOUT/PTE[7]	O/IO	Interrupt request notification / input/output port E
137	VssQ	-	Input/output power supply (0 V)
138	CKIO	IO	System clock input/output
139	VccQ	-	Input/output power supply (3.3 V)
140	TxD0/SCPT[0]	O	SCI transmit data 0 / SC port
141	SCK0/SCPT[1]	IO	SCI clock 0 / SC port
142	TxD2/SCPT[2]	O	SCIF transmit data 2 / SC port
143	SCK2/SCPT[3]	IO	SCIF clock 2 / SC port
144	RTS2/SCPT[4]	O/IO	SCIF transmit request 2 / SC port
145	RxD0/SCPT[0]	IN	SCI receive data 0 / SC port
146	RxD2/SCPT[2]	IN	SCIF receive data 2 / SC port
147	CTS2/IRQ5/SCPT[5]	IO	SCIF transmit clear / external interruption request / SC port
148	Vss	-	Internal power supply (0 V)
149	RESETM	IN	Manual reset request
150	Vcc	-	Internal power supply (1.9 V)
151	IRQ0/IRL0/PTH[0]	I/I/IO	External interrupt request / input/output port H
152	IRQ1/IRL1/PTH[1]	I/I/IO	External interrupt request / input/output port H
153	IRQ2/IRL2/PTH[2]	I/I/IO	External interrupt request / input/output port H
154	IRQ3/IRL3/PTH[3]	I/I/IO	External interrupt request / input/output port H
155	IRQ4/PTH[4]	I/IO	External interrupt request / input/output port H
156	VssQ	-	Input/output power supply (0 V)
157	NMI	IN	Nonmaskable interrupt request
158	VccQ	-	Input/output power supply (3.3 V)
159	AUDCK/PTG[4]	IN	AUD clock / input port G
160	DREQ0/PTH[5]	I/IO	DMA request / input/output port H
161	DREQ1/PTH[6]	I/IO	DMA request / input/output port H
162	ADTRG/PTG[5]	IN	Analog trigger / input port G
163	MD0	IN	Clock mode setting
164	MD2	IN	Clock mode setting
165	RESETP	IN	Power-on reset request
166	CA	IN	Chip activate / hardware standby request
167	MD3	IN	Area 0 bus width setting
168	MD4	IN	Area 0 bus width setting
169	MD5	IN	Endian setting
170	AVss	-	Analog power supply (0 V)
171	AN[0]/PTJ[0]	IN	A/D converter input / input port J
172	AN[1]/PTJ[1]	I/IO	A/D converter input / input port J
173	AN[2]/DA[1]/PTJ[2]	I/O/I	A/D converter input / D/A converter output / input port J
174	AN[3]/DA[0]/PTJ[3]	I/O/I	A/D converter input / D/A converter output / input port J
175	AVcc	-	Analog power supply (3.3 V)
176	AVss	-	Analog power supply (0 V)

5-8. I/O CONTROLLER (IC21)

5-8-1. Pin Function

Port	Convertible terminal	Function	I/O			Circuit	Logic	Commnet
			Initial	Normal	Power Failure			
P00	INTP0	HCTS	I	I	I	U	-	CTS from HOST
P01	INTP1	R Head up	I	I	I	U		
P02	INTP2	J Head up	I	I	I	U		
P03	INTP3	DKIN	I	I	I	U	-	Input DALLAS KEY
P04	INTP4	R no paper	I	I	I	U	-	
P05	INTP5	J no paper	I	I	I	U	-	
P06	INTP6	HDSR	I	I	I	U	-	DSR from HOST
P10	ANI0	VP search	I	I	I		AN	
P11	ANI1	Thermister H	I	I	I		AN	
P12	ANI2	Thermister J	I	I	I		AN	
P13	ANI3	DSTS0	I	I	I	U	-	DRAWER STS0
P14	ANI4	DSTS1	I	I	I	U	-	DRAWER STS1
P15	ANI5	PrinterTBLSel	I	I	I	U	+	Printer TBL select switch
P16	ANI6	DSTS2	I	I	I	U	-	DRAWER STS2
P17	ANI7	DSTS3	I	I	I	U	-	DRAWER STS3
P20	RxD1	HRXD	I	I	I	U	-	RxD from HOST
P21	TxD1	HTXD	I	O	I	U	-	TxD from HOST
P22	ASCK1	HCLK	I	I	I	U	-	CLK (4Mhz) from HOST
P23	PCL	HDTR	I	O	I	U	-	DTR to HOST
P24	BUZ	HRTS	I	O	I	U	-	RTS to HOST
P25	SI0	KEY TYPE0	I	I	I	U	+	KEYboard TYPE 0
P26	SO0	Printer SO	I	O	I	U	-	SO to printer
P27	SCK0	Printer SCK	I	O	I	U	-	CLK to printer
P30	TO0	KC 0	I	O	I	U	-	KEY common output
P31	TO1	KC 1	I	O	I	U	-	
P32	TO2	KC 2	I	O	I	U	-	
P33	TI1	KC 3	I	O	I	U	-	
P34	TI2	KC 4	I	O	I	U	-	
P35	TIO0	KC 5	I	O	I	U	-	
P36	TIO1	KC 6	I	O	I	U	-	
P37		KC 7	I	O	I	U	-	
P40	AD0	LED Control	I	O	I	U	-	LED Latch 0
P41	AD1		I	O	I	U	-	LED Latch 1
P42	AD2		I	O	I	U	-	LED Latch 2
P43	AD3	DKOUT	I	O	I	U	+	DALLAS KEY output
P44	AD4	CUTTER RESET	I	I	I	U	+	Cutter RESET
P45	AD5	VP ON	I	O	I	U	+	Printer VP ON
P46	AD6	R STEP MOTOR	I	O	I	U	-	STEP MOTOR IO
P47	AD7	J STEP MOTOR	I	O	I	U	-	STEP MOTOR IO
P50	A8	KI0	I	I	I	U	-	KEY input (MODE input)
P51	A9	KI1	I	I	I	U	-	
P52	A10	KI2	I	I	I	U	-	
P53	A11	KI3	I	I	I	U	-	
P54	A12	KI4	I	I	I	U	-	
P55	A13	KI5	I	I	I	U	-	
P56	A14	KI6	I	I	I	U	-	
P57	A15	KI7	I	I	I	U	-	

Port	Convertible terminal	Function	I/O			Circuit	Logic	Commnet
			Initial	Normal	Power Failure			
P60	A16	KI14	I	I	I	U	-	KEY input (MODE input)
P61	A17	KI15	I	I	I	U	-	
P62	A18	SW KEY IN	I	I	I	U	+	SWITCH common input
P63	A19	MODE COM	I	O	I	U	-	MODE KEY common output
P64	RD	DW 0	I	O	I		+	
P65	WR	DW 1	I	O	I		+	
P66	WAIT	DW 2	I	O	I		+	
P67	ASTB	DW 3	I	O	I		+	
P70	RxD2	KEY TYPE 1	I	I	I	U	+	KEYboard TYPE 1
P71	TxD2	R SELECT	I	O	I	U	-	Printer R SEL
P72	ASCK2	J SELECT	I	O	I	U	-	Printer J SEL
P80	A0	LED Control	I	O	I		-	SA0/SA1/DG0
P81	A1		I	O	I		-	SB0/SB1/DG1
P82	A2		I	O	I		-	SC0/SC1/DG2
P83	A3		I	O	I		-	SD0/SD1/DG3
P84	A4		I	O	I		-	SE0/SE1/DG4
P85	A5		I	O	I		-	SF0/SF1/SCLK0
P86	A6		I	O	I		-	SG0/SG1/SCLK1
P87	A7		I	O	I		-	SDP0/SDP1/STR
P90	N-ch Open Drain	KI8	I	I	I	U	-	KEY input (MODE input)
P91		KI9	I	I	I	U	-	
P92		KI10	I	I	I	U	-	
P93		KI11	I	I	I	U	-	
P94		KI12	I	I	I	U	-	
P95		KI13	I	I	I	U	-	
P100	TI5/TO5	BUZZER	I	O	I			BUZZER
P101	TI6/TO6	KC8	I	O	I	U	-	KEY common output
P102	TI7/TO7	KC9	I	O	I	U	-	
P103	TI8/TO8	KC10	I	O	I	U	-	
P120	RTP0	R STEP MOTOR	I	O	I	U	-	STEP MOTOR FHASE0
P121	RTP1	R STEP MOTOR	I	O	I	U	-	STEP MOTOR FHASE1
P122	RTP2	J STEP MOTOR	I	O	I	U	-	STEP MOTOR FHASE0
P123	RTP3	J STEP MOTOR	I	O	I	U	-	STEP MOTOR FHASE1
P124	RTP4	STB0	I	O	I	U	-	STB0
P125	RTP5	STB1	I	O	I	U	-	STB1
P126	RTP6	STB2	I	O	I	U	-	STB2
P127	RTP7	LATCH	I	O	I	U	-	Printer LATCH
P130	ANO0	PrinterBusy	I	O	I	U	+	Printer Busy to HOST
P131	ANO1	PrinterBuffReady	I	O	I	U	-	PrinterBuffReady to HOST

	SWITCH KI
KC0	MS0
KC1	MS1
KC2	MS2

	MODE COM
KI0	PGM
KI1	RF
KI2	REG1
KI3	REG2
KI4	X
KI5	Z
KI6	X2/Z2
KI7	OFF

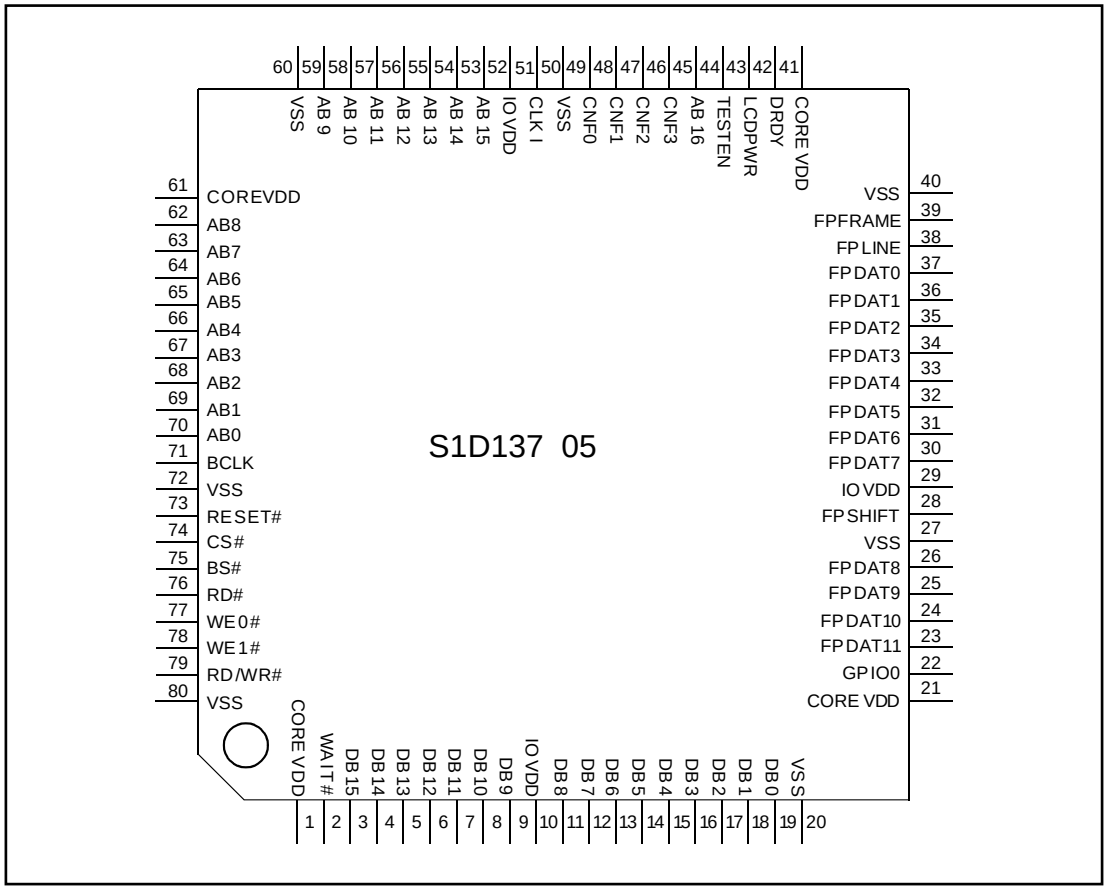
5-9. G/A (IC10)

5-9-1. Pin Function

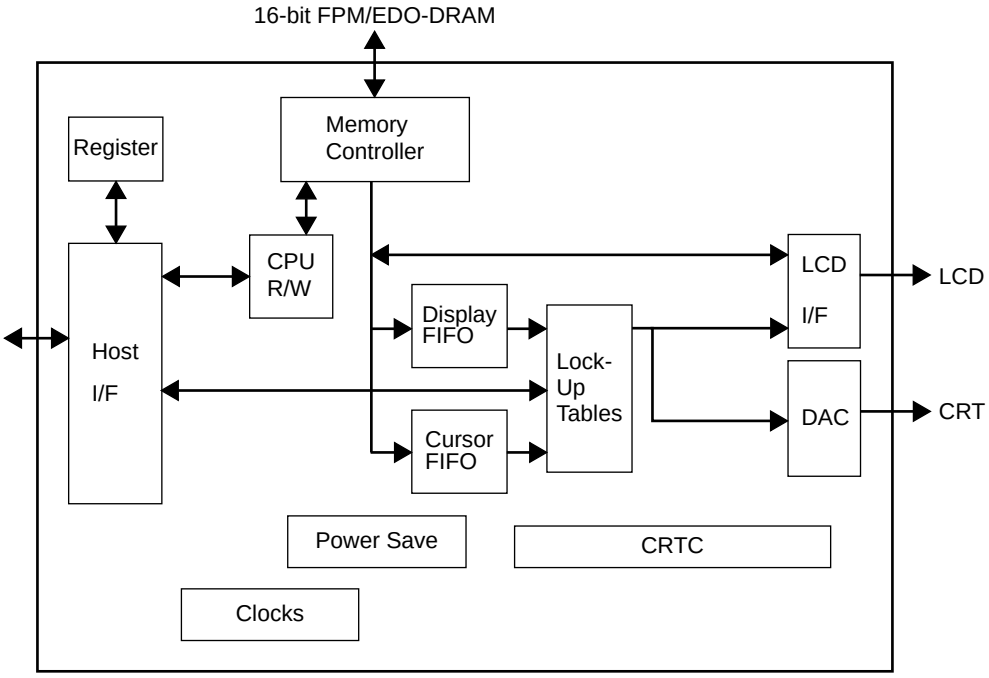
PIN NO	PIN NAME	I/O	DESCRIPTIN	PIN NO	PIN NAME	I/O	DESCRIPTIN
1	VDD	VDD	VDD	73	VDD	VDD	VDD
2	GD0	I/O	ARC DATA (D0)	74	CLKOUT	O	CLOCK 8MHz
3	GD1	I/O	ARC DATA (D1)	75	CLKIN	I	CLOCK 8MHz
4	GD2	I/O	ARC DATA (D2)	76	GND	I	GND
5	GD3	I/O	ARC DATA (D3)	77	CS	I	Chip Select 5
6	GD4	I/O	ARC DATA (D4)	78	A0	I	ADDRESS (A1)
7	TVDD	VDD	VDD	79	A1	I	ADDRESS (A2)
8	TGND	GND	GND	80	A2	I	ADDRESS (A3)
9	GD5	I/O	ARC DATA (D5)	81	A3	I	GND
10	GD6	I/O	ARC DATA (D6)	82	A23	I	ADDRESS (A23)
11	GD7	I/O	ARC DATA (D7)	83	A20	I	ADDRESS (A20)
12	GD8	I/O	VDD	84	A21	I	ADDRESS (A21)
13	GD9	I/O	VDD	85	A22	I	ADDRESS (A22)
14	TGND	GND	GND	86	RD	I	IO READ
15	GD10	I/O	VDD	87	WE	I	IO WRITE
16	GD11	I/O	VDD	88	INT6	I	INT for ARC
17	GD12	I/O	VDD	89	INT7	I	Int for PCMCIA
18	GD13	I/O	VDD	90	TVDD	VDD	VDD
19	GD14	I/O	VDD	91	RESET	I	RESET
20	TVDD	VDD	VDD	92	RD_WE	I	READ/WRITE signal
21	TGND	GND	GND	93	TESTB	I	VDD
22	GD15	I/O	VDD	94	U1_CTSB	I	CST2
23	GA0	O	ARC ADDRESS (A0)	95	U1_DSRB	I	DSR2
24	GA1	O	ARC ADDRESS (A1)	96	U1_SIN	I	RXD2
25	GA2	O	ARC ADDRESS (A2)	97	U1_DTRB	O	DTR2
26	GA3	O	Not used	98	U1_RTSB	O	RTS2
27	TGND	GND	GND	99	U1_SOUT	O	TXD2
28	D0	I/O	DATA (D0)	100	U2_CTSB	I	CTS3
29	D1	I/O	DATA (D1)	101	U2_DSRB	I	DSR3
30	D2	I/O	DATA (D2)	102	U2_SIN	I	RXD3
31	TVDD	VDD	VDD	103	U2_DTRB	O	DTR3
32	TGND	GND	GND	104	U2_RTSB	O	RTS3
33	D3	I/O	DATA (D3)	105	U2_SOUT	O	TXD3
34	D4	I/O	DATA (D4)	106	U3_CTSB	I	CTS4
35	D5	I/O	DATA (D5)	107	U3_DSRB	I	DSR4
36	VDD	VDD	VDD	108	VDD	VDD	VDD
37	GND	GND	GND	109	GND	GND	GND
38	GND	GND	GND	110	GND	GND	GND
39	D6	I/O	DATA (D6)	111	U3_SIN	I	RXD4
40	D7	I/O	DATA (D7)	112	U3_DTRB	O	DTR4
41	D8	I/O	VDD	113	U3_RTSB	O	RTS4
42	TGND	GND	GND	114	U3_SOUT	O	TXD4
43	D9	I/O	VDD	115	U4_CTSB	I	VDD
44	D10	I/O	VDD	116	U4_DSRB	I	VDD
45	D11	I/O	VDD	117	U4_SIN	I	VDD
46	TVDD	VDD	VDD	118	U4_DTRB	O	NOT USED
47	TGND	GND	GND	119	U4_RTSB	O	NOT USED
48	D12	I/O	VDD	120	U4_SOUT	O	NOT USED
49	D13	I/O	VDD	121	U5_CTSB	I	VDD
50	D14	I/O	VDD	122	U5_DSRB	I	VDD
51	TGND	GND	GND	123	U5_SIN	I	VDD
52	D15	I/O	VDD	124	U5_DTRB	O	NOT USED
53	INTC2	O	INT for ARC	125	U5_RTSB	O	NOT USED
54	INTC1	O	INT for UART	126	U5_SOUT	O	NOT USED
55	GCS1	O	Chip Select for ARC	127	TVDD	VDD	VDD
56	GCS2	O	EST-CS	128	PCMIN	I	PCMCD1
57	GRD	O	Read signal for ARC	129	CE1B	I	CE1
58	GWE	O	Write signal for ARC	130	CE2B	I	CE2
59	PCIN	O	PCMCIA IN/OUT signal	131	CFIN	I	CFCD1
60	PCMG	O	Enable for PCMCIA	132	CE1A	I	CE1
61	CFCE1A	O	Chip Enable1 for CF CARD	133	CFCE	I	ADDRESS (A23)
62	CIN	O	CF CARD IN/OUT signal	134	CE2A	I	CE2
63	CFG	O	Enable for CF CARD	135	BFI1	I	CI1
64	CFCE2A	O	Chip Enable2 for CF CARD	136	BFI2	I	CD1
65	ANDO1	O	WAIT signal	137	BFI3	I	RXD1
66	ANDO2	O	DSR	138	BFI4	I	CTS1
67	BFO1	O	CI	139	ANDI1	I	WAIT for CF CARD
68	BFO2	O	CD	140	ANDI2	I	WAIT for PCMCIA
69	BFO3	O	RXD	141	ANDI3	I	DSR1
70	BFO4	O	CTS	142	ANDI4	I	DSR1
71	GND	GND	GND	143	GND	GND	GND
72	GND	GND	GND	144	GND	GND	GND

5-10. LCD CONTROLLER (IC13)

5-10-1. Pin Assignment



5-10-2. Block Diagram



5-10-3. Pin Function

■ KEY

I = Input
O = Output
IO = Bi-Directional (Input/Output)
P = Power pin
C = CMOS level input
CS = CMOS level Schmitt input
COx = CMOS output driver, x denotes driver type (see I OL /I OH in Table 6-4: “Output Specifications,” on page 25)
TSx = Tri-state CMOS output driver, x denotes driver type (see I OL /I OH in Table 6-4: “Output Specifications,” on page 25)
CNx = CMOS low-noise output driver, x denotes driver type (see I OL /I OH in Table 6-4: “Output Specifications,” on page 25)
TEST = CMOS level test input with pull down resistor

■ HOST INTERFACE

Pin Names	Type	Pin#	Cell	RESET# State	Description
AB0	I	70	CS	Input	This pin has multiple functions. • For SH-3/SH-4 mode, this pin inputs system address bit 0 (A0). • For MC68K #1, this pin inputs the lower data strobe (LDS#). • For MC68K #2, this pin inputs system address bit 0 (A0). • For Generic #1, this pin inputs system address bit 0 (A0). • For Generic #2, this pin inputs system address bit 0 (A0).
AB[16:1]	I	45, 53, 54, 55, 56, 57, 58, 59, 62, 63, 64, 65, 66, 67, 68, 69	C	Input	These pins input the system address bits 16 through 1 (A[16:1]).
DB[15:0]	IO	3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19	C/TS2	Hi-Z	These pins have multiple functions. • For SH-3/SH-4 mode, these pins are connected to [D15:0]. • For MC68K #1, these pins are connected to D[15:0]. • For MC68K #2, these pins are connected to D[31:16] for a 32-bit device (e.g. MC68030) or D[15:0] for a 16-bit device (e.g. MC68340). • For Generic #1, these pins are connected to D[15:0]. • For Generic #2, these pins are connected to D[15:0].
WE0#	I	77	CS	Input	This pin has multiple functions. • For SH-3/SH-4 mode, this pin inputs the write enable signal for the lower data byte (WE0#). • For MC68K #1, this pin must be tied to IO V DD • For MC68K #2, this pin inputs the bus size bit 0 (SIZ0). • For Generic #1, this pin inputs the write enable signal for the lower data byte (WE0#). • For Generic #2, this pin inputs the write enable signal (WE#).

Pin Names	Type	Pin#	Cell	RESET# State	Description
WE1#	I	78	CS	Input	This pin has multiple functions. • For SH-3/SH-4 mode, this pin inputs the write enable signal for the upper data byte (WE1#). • For MC68K #1, this pin inputs the upper data strobe (UDS#). • For MC68K #2, this pin inputs the data strobe (DS#). • For Generic #1, this pin inputs the write enable signal for the upper data byte (WE1#). • For Generic #2, this pin inputs the byte enable signal for the high data byte (BHE#).
CS#	I	74	C	Input	This pin inputs the chip select signal.
BCLK	I	71	C	Input	This pin inputs the system bus clock.
BS#	I	75	CS	Input	This pin has multiple functions. • For SH-3/SH-4 mode, this pin inputs the bus start signal (BS#). • For MC68K #1, this pin inputs the address strobe (AS#). • For MC68K #2, this pin inputs the address strobe (AS#). • For Generic #1, this pin must be tied to V SS. • For Generic #2, this pin must be tied to IO V DD.
RD/WR#	I	79	CS	Input	This pin has multiple functions. • For SH-3/SH-4 mode, this pin inputs the RD/WR# signal. The S1D13705 needs this signal for early decode of the bus cycle. • For MC68K #1, this pin inputs the R/W# signal. • For MC68K #2, this pin inputs the R/W# signal. • For Generic #1, this pin inputs the read command for the upper data byte (RD1#). • For Generic #2, this pin must be tied to IO V DD.
RD#	I	76	CS	Input	This pin has multiple functions. • For SH-3/SH-4 mode, this pin inputs the read signal (RD#). • For MC68K #1, this pin must be tied to IO V DD . • For MC68K #2, this pin inputs the bus size bit 1 (SIZ1). • For Generic #1, this pin inputs the read command for the lower data byte (RD0#). • For Generic #2, this pin inputs the read command (RD#).
WAIT#	O	2	TS2	Hi-Z	This pin has multiple functions. • For SH-3 mode, this pin outputs the wait request signal (WAIT#). • For SH-4 mode, this pin outputs the device ready signal (RDY#). • For MC68K #1, this pin outputs the data transfer acknowledge signal (DTACK#). • For MC68K #2, this pin outputs the data transfer and size acknowledge bit 1 (DSACK1#). • For Generic #1, this pin outputs the wait signal (WAIT#). • For Generic #2, this pin outputs the wait signal (WAIT#).
RESET#	I	73	CS	0	Active low input to set all internal registers to the default state and to force all signals to their inactive states.

■ LCD INTERFACE

Pin Names	Type	Pin#	Cell	RESET# State	Description
FPDAT[7:0]	O	30, 31, 32, 33, 34, 35, 36, 37	CN3	0	Panel Data
FPDAT [10:8]	O, IO	24, 25, 26	CN3	Input	These pins have multiple functions. • Panel Data bits [10:8] for TFT/D-TFD panels. • General Purpose Input/Output pins GPIO[3:1]. These pins should be connected to IO V DD when unused.
FPDAT11	O, IO	23	CN3	Input	This pin has multiple functions. • Panel Data bit 11 for TFT/D-TFD panels. • General Purpose Input/Output pin GPIO4. • Inverse Video select pin. This pin should be connected to IO V DD when unused.
FPFRAME	O	39	CN3	0	Frame Pulse
FPLINE	O	38	CN3	0	Line Pulse
FPSHIFT	O	28	CN3	0	Shift Clock
LCDPWR	O	43	CO1	0	Active high LCD Power Control
DRDY	O	42	CN3	0	This pin has multiple functions. • TFT/D-TFD Display Enable (DRDY). • LCD Backplane Bias (MOD). • Second Shift Clock (FPSHIFT2).

■ CLOCK INPUT

Pin Names	Type	Pin#	DRIVER	Description
CLKI	I	51	C	Input Clock

■ MISCELLANEOUS

Pin Names	Type	Pin#	Cell	RESET# State	Description
CNF[3:0]	I	46, 47, 48, 49	C	As set by hardware	These inputs are used to configure the S1D13705 - see Table 5-1: “Summary of Power On/Reset Options,” on page 22. Must be connected directly to IO V_{DD} or V_{SS}.
GPIO0	IO, I	22	CS/ TS1	Input	This pin has multiple functions - see REG[03h] bit 2. • General Purpose Input/Output pin. • Hardware Power Save.
TESTEN	I	44	TEST	pulled low	Test Enable input. This input must be connected to V_{SS}.

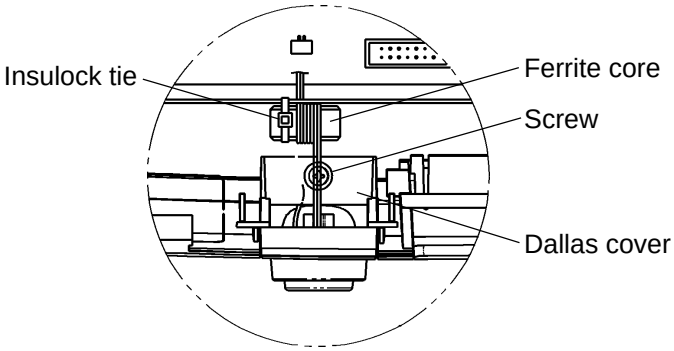
■ POWER SUPPLY

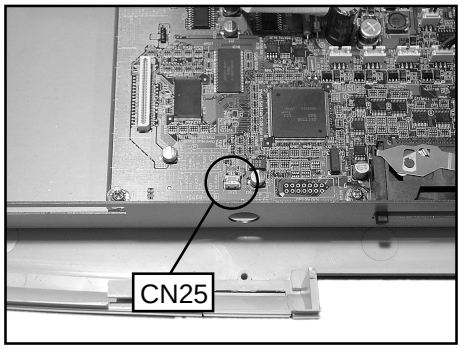
Pin Names	Type	Pin#	DRIVER	Description
COREVDD	P	1, 21, 41, 61	P	Core V_{DD}
IOVDD	P	10, 29, 52	P	IO V_{DD}
VSS	P	20, 27, 40, 50, 60, 72, 80	P	Common V_{SS}

6. OPTION INSTALLATION

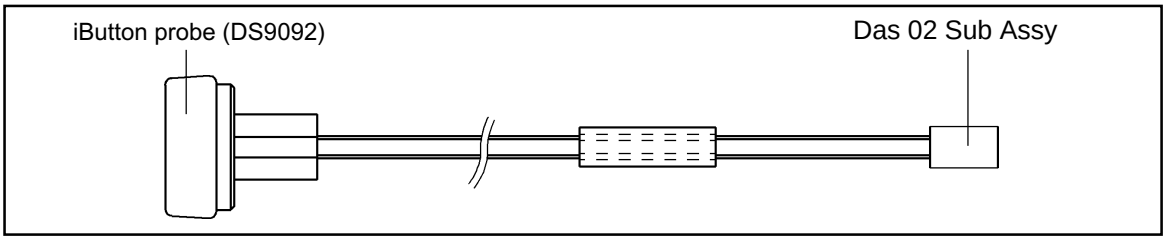
6-1. Dallas Key (Clerk key kit CLK-K22)

1. Remove the upper cover as shown in steps 1 to 3 of page 9.
2. Fix the Dallas Cable Assy to the Dallas cover.
3. Fix the Dallas cover to the lower case by screw.
4. Let the Dallas cable through the unit and connect it to the MAIN PCB (CN25).
   Note : Wind the cable through the Ferrite core two and a half times.
5. Fix the Ferrite core to the chassis by insulock tie.
6. Fix the UPPER COVER.

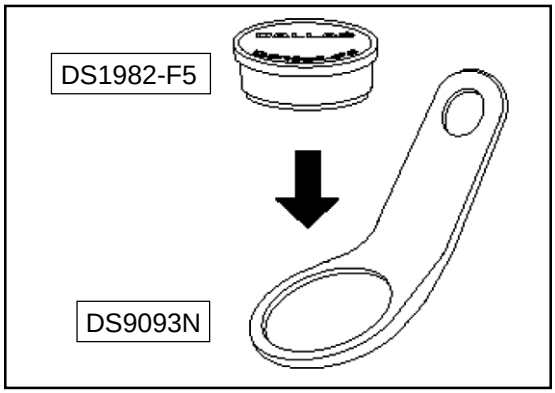




Dallas Cable Assy



Dallas key Assy



N	Code No.	Parts Name	Specification	Q'ty	Price Code	Note
N	1010 4433	COVER/DALLAS E468	RJE500428-1	1		This part is attached in the carton box of TE-7000S/8000F/8500F.
	1008 6507	DALLAS CABLE ASSY	E441328*1	1	CD	Clerk key kit (CLK-K22)
	1007 3068	DAS-02 CABLE SUB ASSY	E441319-1	1	AB	Wire with connector(t = 40mm)
	1007 3671	CORE/FERRITE	TR-20-10-10	1	AD	Clerk key kit (CLK-K22)
	1007 9263	DALLAS KEY ASSY/6PCS	RJE500025*1	1	DA	Clerk key kit (CLK-K22)
	1007 3701	iBUTTON/CLERK	DS1982-F5	1	BF	
	1007 3665	iBUTTON MOUNT PROD/CLERK	DS9093N	1	AO	

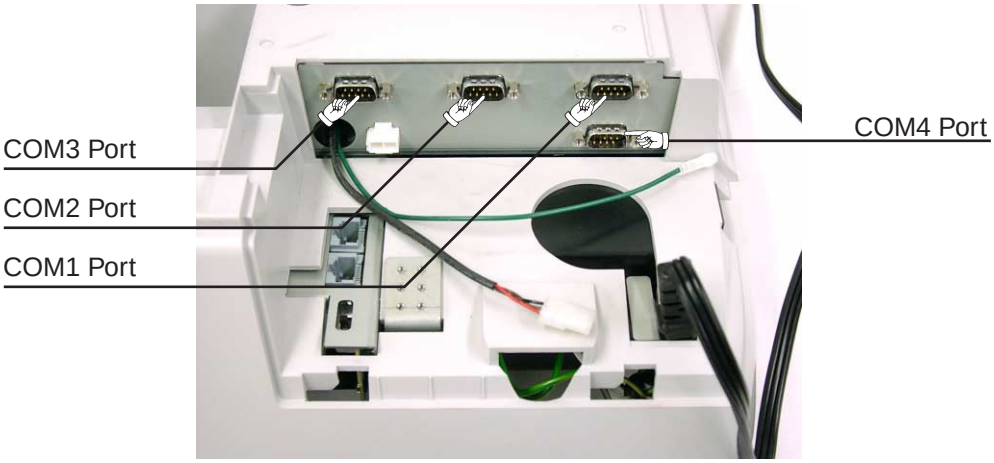
6-2. REMOTE DISPLAY

6-3. HANDY SCNNER

6-4. REMOTE PRINTER / SLIP PRINTER

Connect the following peripherals to the COM ports respectively.

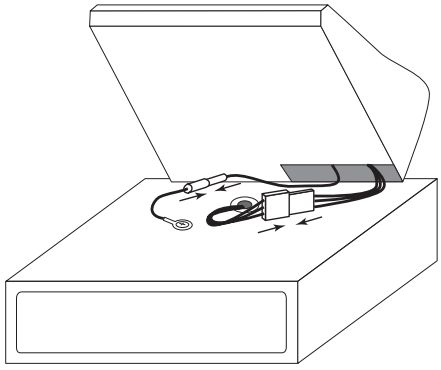
REMOTE DISPLAY : COM3
HANDY SCANNER : COM2
REMOTE PRINTER/ SLIP PRINTER : COM2, 3, 4



6-5. DRAWER

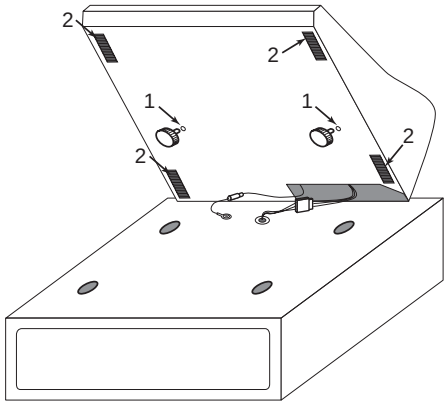
6-5-1. CONNECTOR THE DRAWER

1. Connector drawer connector (three color lead on drawer) to the cash register.
2. Connector frame drawer connector (green lead on drawer) to the cash register.



6-5-2. CONNECTOR THE DRAWER

1. Screw in 2 fixing screws bottom side of the register.
2. Stick rubber plate on the eash corner of the bottm side of the register.
3. Mount the cash register on the top of the drawer, ensuring that the feet on the bottom of the cash register go into the holes on the drawer



7. IN LINE

■ There are two types for IN LINE; CATEGORY5A and ARCNET.

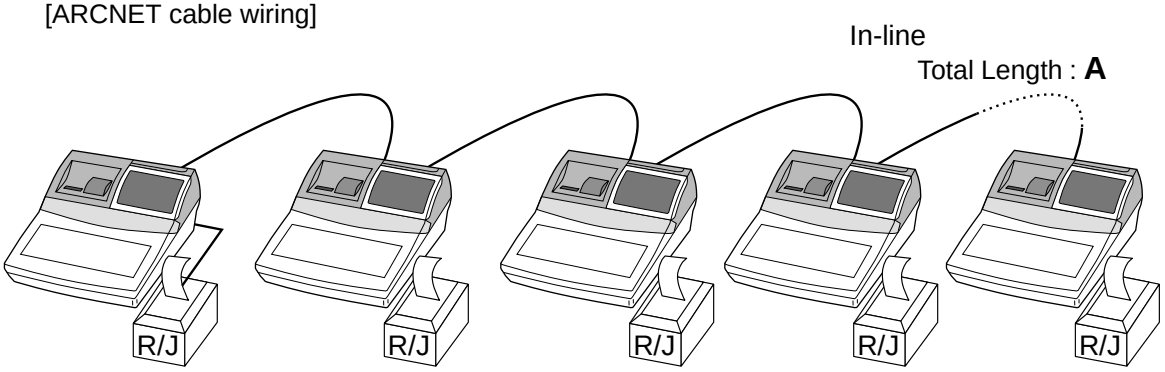
Note: When the cluster has more than 8 TE-7000S/8000F/8500F terminals, all printer should be local printer. When the cluster has less than or equal to 8 TE-7000S/8000F/8500F terminals, remote printer is allowable.

7-1. ARCNET(INLINE1)

① ARCNET connection diagram

The maximum ARCNET cable length and the maximum connection unit will be varied by the in-line communication speed as shown below list.

[ARCNET cable wiring]



ARCNET communication speed (Baud rate)	Maximum connection unit	Maximum cable length **A** (m)
312.5 K bps	20	430
156.25 K bps	32	890

② In line cable, Connector, Terminater and Earth plate
The following parts are packaged in the ECR.

ARCNET cable

N	Code No.	Parts name	Specification	Price code
	1904 4023	In-line cable	IPEV-SLA0.5x1P	AN

ARCNET connector(ECR side)

N	Code No.	Parts name	Specification	Price code	Note
	3540 3924	In-line connector kit	XLP-KIT-2	AK	Connector×1 cap×2

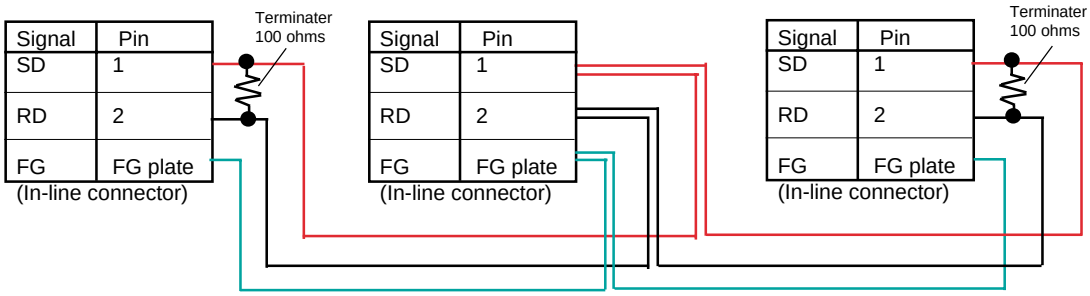
Terminater

N	Code No.	Parts name	Specification	Price code
N	10054255	Resistor	RD14J101T26	

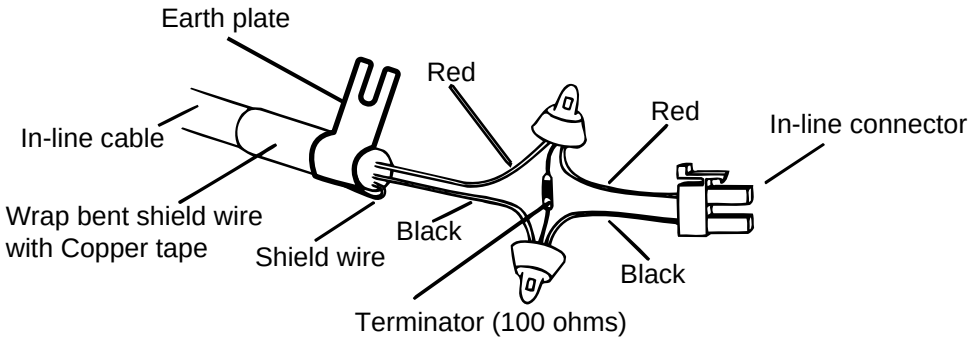
Earth plate

	Code No.	Parts name	Specification	Price code
	62477372	Plate/Earth	E440398-1	AB

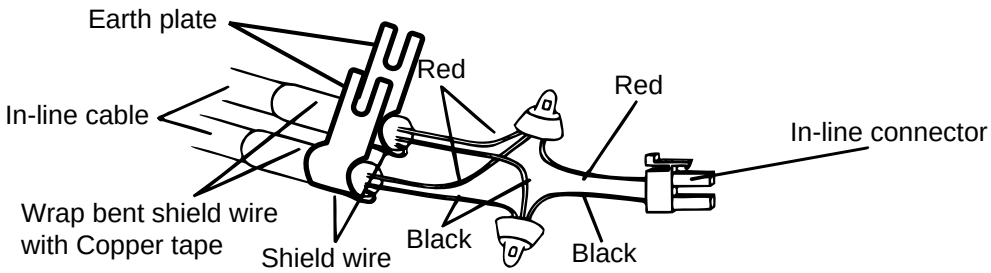
③ ARCNET Cable connection diagram



[Connection end of ECR]



[Connection between ECR and ECR]



NOTE:

1) The earth plate should be fixed to the ground chassis.
2) When using the ARCNET, slide the switch at the bottom of ECR to RS485.

7-2. CATEGORY5 (INLINE2)

① Restrictions

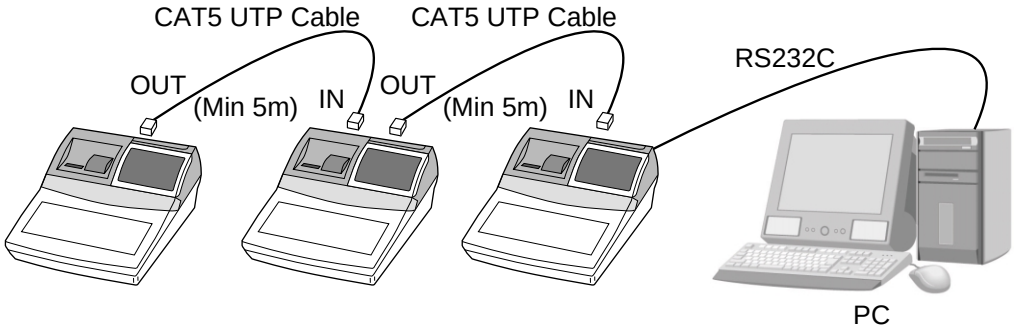
- Maximum number of units that can be connected is 32.
- HUB and rooter cannot be connected.
- With ARCNET simultaneous use impossible.
- Minimum cable length between units is 5 meters.

Maximun total length of the cable	
4 units :	450m
8 units :	420m
32 units :	230m

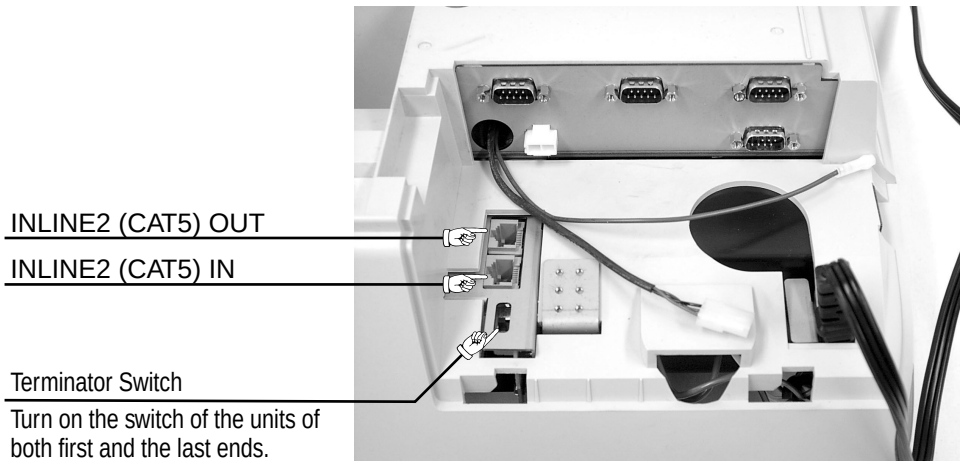
② APPLICATION

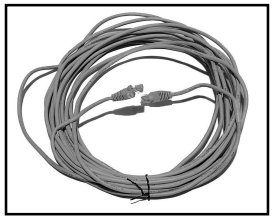
- Auto PGM
- Sales Data Collection
- Shared Check Tracking
- Shared Printer
- IPL

③ BLOCK DIAGRAM

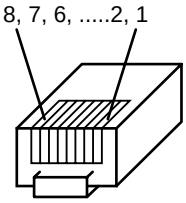


④ Connection





LAN CABLE



⑤ LAN cable specifications

CAT5 UTP Cable (TIA/EIA 568)
0.5mm x 4P Not shielded wire Twist pair cable

NOTE:

1) The power of all units which share the network must be turned on.
   If even one of them is OFF, normal communication cannot be done.
   If any of the units has a failure and its power is turned off, remove the unit from the network.
2) Communication speed of the categoly 5 is fixed 312.5kbps.
3) When using CAT5, slide the switch at the bottom of ECR to CAT5 side.

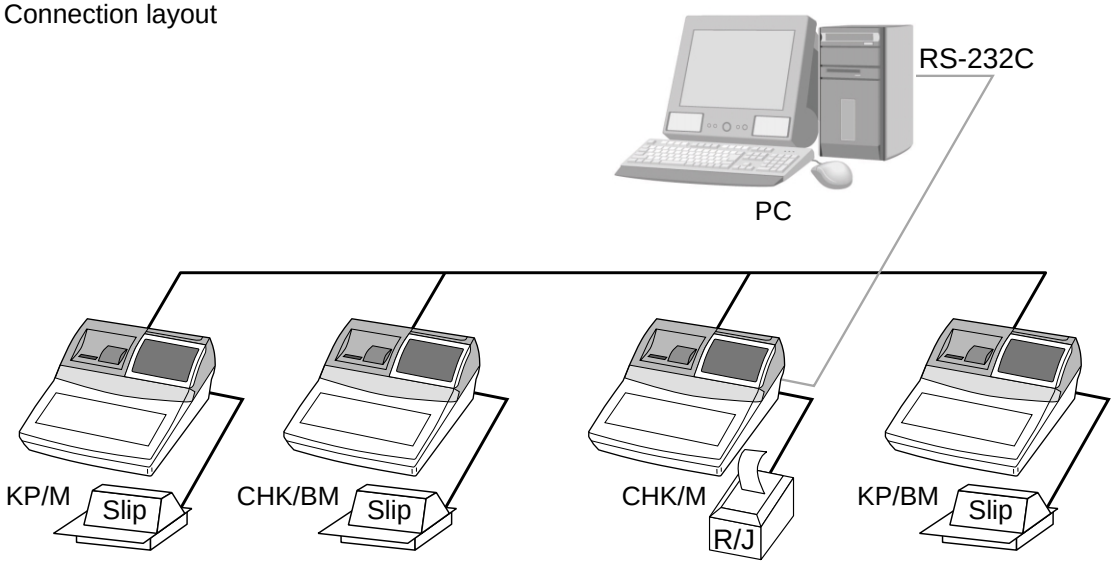
8. ON LINE

Only the RS-232C Com1 port can be connected with a modem or perssonal computer.

Note: When the cluster has more than 8 register terminals, all printer should be local printer. When the cluster has less than or equal to 8 register terminals, remote printer is allowable.

8-1. Direct connection to PC

① Connection layout



Using Com1 port

② PC Cable wiring

TE-7000S/8000F/8500F (Com1)

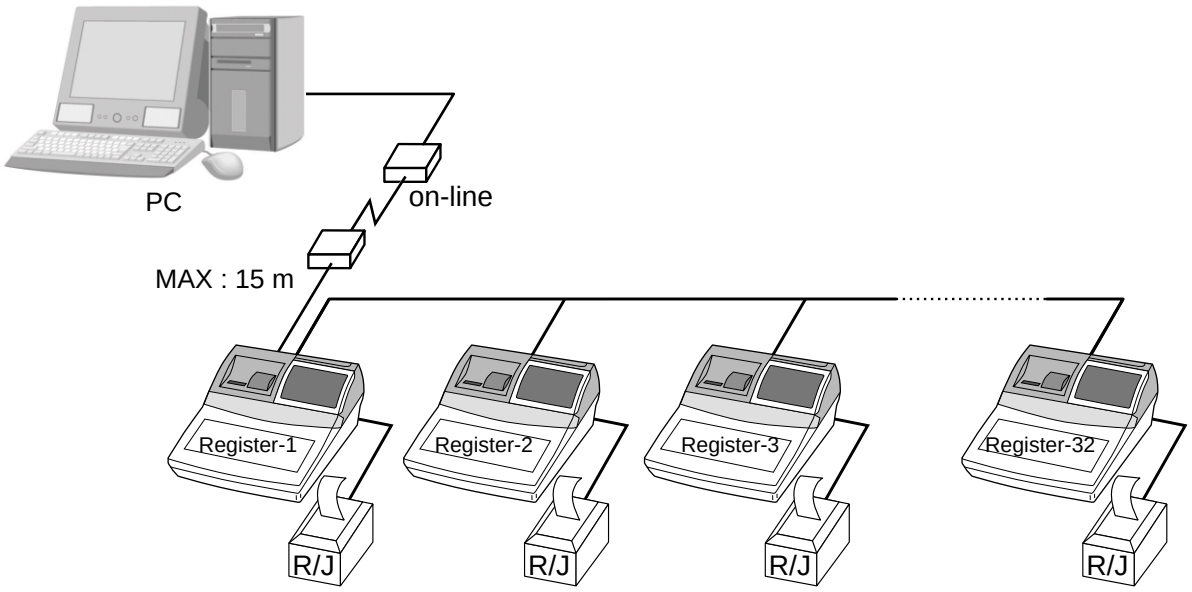
Pin No.	Signal name
3	SD/TXD
2	RD/RXD
7	RS/RTS
8	CS/CTS
1	CD/DCD
4	ER/DTR
6	DR/DSR
9	CI/RI
5	GND

PC

Pin No. (DSUB9)	Pin No. (DSUB25)	Signal name
3	2	SD
2	3	RD
7	4	RS
8	5	CS
1	8	CD
4	20	ER
6	6	DR
-	22	CI
5	7	GND

8-2. MODEM system

① Connection layout



Use Com1 port

② PC Cable wiring

TE-7000S/8000F/8500F (Com1)

Pin No.	Signal name
3	SD/TXD
2	RD/RXD
7	RS/RTS
8	CS/CTS
1	CD/DCD
4	ER/DTR
6	DR/DSR
9	CI/RI
5	GND

MODEM (DSUB25)

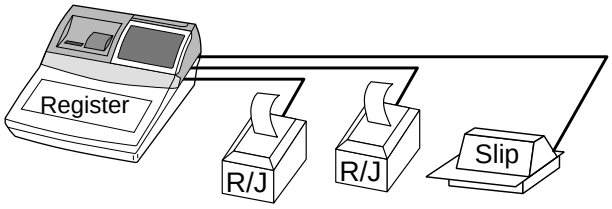
Pin No.	Signal name
2	SD
3	RD
4	RS
5	CS
8	CD
20	ER
6	DR
22	CI
7	GND

8-3. PRINTER Connection

■ Three printers can be connected to TE-7000S/8000F/8500F.
Com2 ~ Com4 are used for ports.

① Connection layout

Maimum connection number : Max. 3 printer
Note:The slip printer can be connected one unit only.



9. DIAGNOSTIC OPERATION

9-1. To start the diagnostic operation

1. Power off.
2. While holding down the "Jounal feed" button, turn the power on.
3. Release the button when the main display on.
   Note: Releace the botton when "INT" appears at the left bottom of the LCD.
   Normal performance cannot be ensured if the botton was released before "INT" appears.
4. Input "99990000" and press [SUB TOTAL].
5. Diagnostic program is executed.

[LCD]

LCD COLOR	KEY FF+STRK
ARC RS485 CF INSERT	E-STAMP NON
RCT/PAPER HEAD CUT	JNR/PAPER HEAD
Diag Ver : XXXXXX XXXX	
DALLAS 12345678abcdef	MENU SHEET 1
DRW 1CLOSE 2CLOSE 3CLOSE 4CLOSE	
0000	1234

Note: No display or print is done because there is no independent version for DIAG for the product.

9-2. Notes for the DIAG

- All test results are printed by the built-in printer receipt.
- Make sure to test HHS-15 by connecting to COM2.
- Make sure to test REMOTE DISP by connecting COM3.
- When you want to do the test infinitely, follow the direction for each test and input numbers other than 0. Inputting numbers 1~9 as the command for the number of times for carrying out the test in the operation of each page makes the number infinite.
  Note that you can only choose one time or infinite times.

9-3. Note the following when performing the ARCNET test

① When testing with ARCNET cable
Slide the switch of the cable to the RS485.
Make sure that a terminal resistance is fixed with the cable. (If not, the cable has to be processed.)
Note that the terminal resistance switch does not have any meaning for RS485.

② When testing with CAT5 cable
Slide the switch of the cable to the CAT5.
Make sure to turn the terminal resistance switch ON.

9-4. Procedure and display for the operator judgment test

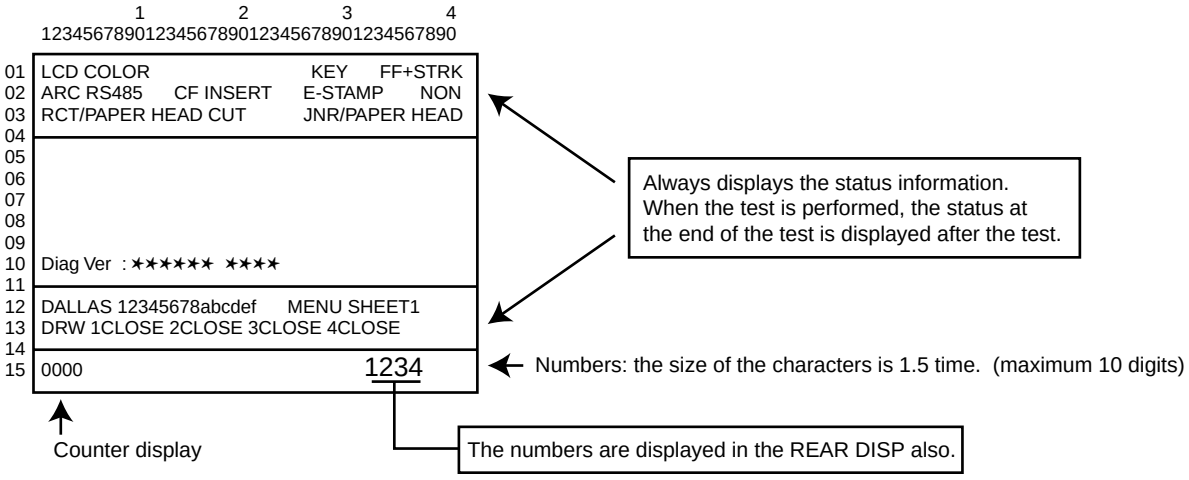
- In the operator judgment test, determine the test result either by OK key or NG key after "Please Hit Key OK -> 1 NG ->9" appears.
  OK key : number 1
  NG key : number 9

9-5. Status display

[Function]
The status of the device which holds the status information is displayed.
The displayed device and the status are as follows.

Device	Status information (displayed information)	Device	Status information (displayed information)
Dalllas key	Dallas key No.	ARCNET	Port status
Drawer	Open or close	Printer (receipt)	Head up (normal or abnormal)
MENU sheet	Sheet number		Lack of paper (with or without paper)
E-Stamp	Inserted or removed		Cutter (normal or abnorrmal)
LCD	Color/ black and white	Printer (Journal)	Head up (normal or abnormal)
Key type	Keyboard type information		Lack of paper (with or without paper)
CF card	Inserted or removed		

[LCD]
The status display when all of the following status is normal is as follows; LCD type (color), Key type (FULL FLAT + STROKE), ARCNET PORT (RS 485), CF-CARD (inserted), E-stamp (not inserted) and Printer status.


1 2 3 4
1234567890123456789012345678901234567890
01 LCD COLOR KEY FF+STRK
02 ARC RS485 CF INSERT E-STAMP NON
03 RCT/PAPER HEAD CUT JNR/PAPER HEAD
10 Diag Ver : ✶✶✶✶✶✶ ✶✶✶✶
12 DALLAS 12345678abcdef MENU SHEET1
13 DRW 1CLOSE 2CLOSE 3CLOSE 4CLOSE
15 0000 1234
Always displays the status information.
When the test is performed, the status at
the end of the test is displayed after the test.
Numbers: the size of the characters is 1.5 time. (maximum 10 digits)
Counter display
The numbers are displayed in the REAR DISP also.

* The key type (“KEY FF + STRK” in the above figure) is the one which is connected when the power is turned on.
  When displaying a different key type, turn the power off once, and replace the keyboard. The display won’t change even if the keyboard is replaced while the power is on.

* The displayed information of the printer status is as follows;
  RCT: receipt information
  JNR: journal information
  When an error is detected in each information, the error information is displayed in black characters and the background is displayed in white (reversed). When the status returns to normal, the characters turn white and the background turns white (same as in other information).
  ① HEAD (head up information)
  ② PAPER(lack of paper)
  ③ CUT (cutter information for the receipt only)

9-6. Check item

The following test can be checked in the diagnostic test.

No	Device to be checked	Operation	Note	Page
1	Batch test 1	2	Test Device : RAM, Flash, Printer, Date, Time, Buzzer, Drawer	44
2	Batch test 2	3	Test Device : LCD, Back light, Rear Display	45
3	RAM WRITE/READ test	n011		46
4	RAM READ ONLY test	n111		46
5	FLASH CHECK SUM	n512		47
6	FLASH CLEAR & WRITE/READ test (no BACK UP)	n612		47
7	CF-CARD WRITE/READ test	pn013		48
8	CF-CARD READ ONLY test	pn113		48
9	CF-CARD CLEAR test	pn213		49
10	CF-CARD CLEAR WRITE/READ test	pn313		49
11	LCD display test	n021		50
12	LCD backlight OFF test	121		51
13	REAR DISPLAY test	n122		51
14	REMOTE DISPLAY test	na23		52
15	External printer print test	x1x2x3n03d		53
16	Internal printer print test	cn03d		54
17	Internal printer graphic print test	P1P1P1P2P2P2n13d		55
18	Internal printer dot rate test	pn33d		56
19	Internal printer print density test	x0235		57
20	RS232C PORT test	xN04d		57
21	RS232C PORT batch test	40		58
22	ARCNET test	rllmmx0a51		59
23	ARCNET batch tes	150/250		60
24	Time setting	x1x2x3x4x5x60a70		61
25	Time display	70		61
26	Drawer open test	xn091		61
27	Buzzer test	n092		62
28	KEY dipsplay	94		63
29	OBR test	95		64

9-7. Operation of each test

[1] Batch test 1

[Function]

RAM test, FLASH test, test print, time setting, buzzer test and drawer open test are performed continuously.

[Operation]

Refer to the page for the details of the following tests.

Operation : | 2 | SUBTOTAL |

The following tests are performed automatically.

(1) RAM test : WRITE/READ all block test
(2) FLASH : CHECK SUM TEST (checks only code area)
(3) Test print
(4) Times setting : Set the following data.
Arranged data : 2001 December 31, 23:59'30
(5) Buzzer : Ring the one shot buzzer.
No print or display in this test
(6) Drawer open : Opens only drawer 1.
Waits for the key input of OK or NG by the operator after the drawer opens.
OK key : number 1 NG key : number 9
(7) Receipt issuance

[LCD]

*When all the tests ends normally

```
BATC H          2
RAM WR          OK
FLASH CHK SUM   OK
DATE            01/12/31
TIME            23:29-30
Please Hit Key  OK-> 1    NG-> 9
DRW 1           OK
END             2
```

← Waits for the key of OK or NG in the drawer test.
Displays the result upon the input of either key.

[Print]

*When normally printed

```
BATC H          2
RAM WR          OK
FLASH CHK SUM   OK
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBB   ← Print Test
DATE            01/12/31
TIME            23:59-30
DRW 1           OK
END             2
```

* In case of error (** indicates the address of the error.)

• RAM WRITE test error

```
RAM WR          NG **********
```

• Operator judgment test

(Below is displayed and printed when NG key is input after the applicable test.)

```
DRW 1           NG
```

[2] Batch test 2

[Function]

LCD display test, backlight test and REAR DISP tests are performed continuously.

[Operation]

Refer to the page for the details of the following tests.

Operation : | 3 | SUBTOTAL |

The following tests are performed automatically.

(1) LCD test : LCD test is performed. By determining whether it is color or black and white, the applicable test is performed.
Waits for the key input of OK or NG by the operator after the test finishes.
OK key : number 1 NG key : number 9 (Same as the backlight and REAR DISP tests)

(2) Backlight OFF test :
Turns off the backlight.
Waits for the key input of OK or NG by the operator after the backlight is turned off.
* Since the backlight is turned off, “Please hit key…” cannot be seen.

(3) REAR DISP test : This is a test for all the displays of REAR DISP.
Waits for the key input of OK or NG by the operator after the test finishes.

(4) Receipt issuance

[LCD]

*When all the tests ends normally

```
BATC H          3
Please Hit Key  OK-> 1   NG-> 9   ← Waits for the key of OK or NG in the LCD test.
LCD             OK
Please Hit Key  OK-> 1   NG-> 9   ← Waits for the key of OK or NG in the backlight.
BACK LIGHT      OK                  (* when this is displayed, the backlight is turned off.)
Please Hit Key  OK-> 1   NG-> 9   ← Waits for the key of OK or NG in the REAR DISP.
REAR DISP       OK
END             3
```

[Print]

*When normally printed

```
BATC H          3
LCD             OK
BACK LIGHT      OK
REAR DISP       OK
END             3
```

* Operator judgment test

(Below is printed when NG key is input after the applicable test.)

• when NG is input after LCD test

```
LCD             NG
```

[3] RAM WRITE/READ test

[Function]

WRITE/READ test for RAM is performed.
A counter is displayed for RAM test as follows.

[Operation]

Operation : | n | 0 | 1 | 1 | SUBTOTAL |

n: 0 = one time check (can be omitted)
not 0 = continuous check (To stop the test, press “Esc” key)

[LCD]

RAM	n011
RAM WR	OK
END	n011

Displays the address of the error in case the test ended with an error.

[PRINT]

RAM	n011
RAM WR	OK
END	n011

Prints the address of the error in case the test ended with an error.

[4] RAM READ ONLY test

[Function]

READ ONLY test for RAM is performed
Note that WRITE test (n011) must be performed right before this test.

[Operation]

Operation : | n | 1 | 1 | 1 | SUBTOTAL |

n: 0 = one time check (can be omitted)
not 0 = continuous check (To stop the test, press “Esc” key)

[LCD]

RAM	n111
RAM RD	OK
END	n111

Displays the address of the error in case the test ended with an error.

[PRINT]

RAM	n111
RAM RD	OK
END	n111

Prints the address of the error in case the test ended with an error.

[5] FLASH CHECK SUM

[Function]

CHECK SUM test for FLASH ROM is performed.
The area which can be checked is only the code area.
The area range depends on the code capacity.

[Operation]

Operation : | n | 5 | 1 | 2 | SUBTOTAL |

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD]

```
FLASH          n512
FLASH CLR      OK
END            n512
```

Displays only OK or NG, displays no address

[PRINT]

```
FLASH          n512
FLASH CLR      OK
END            n512
```

Displays only OK or NG, displays no address

[6] FLASH CLEAR & WRITE/READ test (no BACK UP)

[Function]

The CLEAR & WRITE/READ test for FLASH MEMORY is performed.
After deleting the memory by CLEAR, WRITE/READ test is performed.

NOTE: IPL becomes necessary again after the test since this test cannot make a backup copy of the program.
The program is also deleted if the memory inside the FLASH is deleted by the CLEAR test.

[Operation]

Operation : | n | 6 | 1 | 2 | SUBTOTAL |

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD] * The counter is displayed which indicates that the FLASH test is in progress.

```
FLASH          n612
FLASH WR ERASE PGM OK
END            n612
```

NG and the address are displayed if WRITE cannot be done normally.

[PRINT]

```
FLASH          n612
FLASH WR ERASE PGM OK
END            n612
```

NG and the address are printed if WRITE cannot be done normally.

[7] CF-CARD WRITE/READ test

[Function]

This test will check the write/read test (connection test) for CF-CARD.
Perform the CF-CARD clear test, before start of this test.
Note that this test does not ensure the data inside the CF-CARD as well as its performance.

[Operation]

Operation : | p | n | 0 | 1 | 3 | SUBTOTAL |

p : designates PCMCIA SLOT
0 = CF 1 = PCMCIA
n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD]

```
CF-CARD      pn013
CF WR        OK
END          pn013
```

NG and the address are displayed if WRITE cannot be done normally.

[PRINT]

```
CF-CARD      pn013
CF WR        OK
END          pn013
```

NG and the address are printed if WRITE cannot be done normally.

[8] CF-CARD READ ONLY test

[Function]

This test will check the read only test for CF-CARD.
Perform the CF-CARD write test, before start of this test.
Note that this test does not ensure the data inside the CF-CARD as well as its performance.

[Operation]

Operation : | p | n | 1 | 1 | 3 | SUBTOTAL |

p: designates PCMCIA SLOT
0 = CF 1 = PCMCIA
n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD]

```
CF-CARD      pn113
CF RD        OK
END          pn113
```

NG and the address are displayed if READ cannot be done normally.

[PRINT]

```
CF-CARD      pn113
CF RD        OK
END          pn113
```

NG and the address are printed if READ cannot be done normally.

[9] CF-CARD CLEAR test

[Function]

This test will check the clear test for CF-CARD.
Note that this test does not ensure the data inside the CF-CARD as well as its performance.

[Operation]

Operation : | p | n | 2 | 1 | 3 | SUBTOTAL |

p: designates PCMCIA SLOT
0 = CF 1 = PCMCIA

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD]

```
CF-CARD      pn213
CF CLR       OK
END          pn213
```

NG and the address are displayed if CLEAR cannot be done normally.

[PRINT]

```
CF-CARD      pn213
CF CLR       OK
END          pn213
```

NG and the address are printed if CLEAR cannot be done normally.

[10] CF-CARD CLEAR WRITE/READ test

[Function]

The CLEAR & WRITE/READ test for CF-CARD is performed.
After deleting the memory by CLEAR, WRITE/READ test (connection test) is performed.
Note that this test does not ensure the data inside the CF-CARD as well as its performance.

[Operation]

Operation : | p | n | 3 | 1 | 3 | SUBTOTAL |

p: designates PCMCIA SLOT
0 = CF 1 = PCMCIA

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD]

```
CF-CARD      pn313
CF CLR&WR    OK
END          pn313
```

NG and the address are displayed if WRITE cannot be done normally.

[PRINT]

```
CF-CARD      pn313
CF CLR&WR    OK
END          pn313
```

NG and the address are printed if WRITE cannot be done normally.

[11] LCD display test

[Function]

This test will check the LCD.
The test ends by the judgment of the operator either by OK or NG only when the one time check is selected.

[Operation]

The test does not end unless inputting OK or NG key when the one time check is selected.

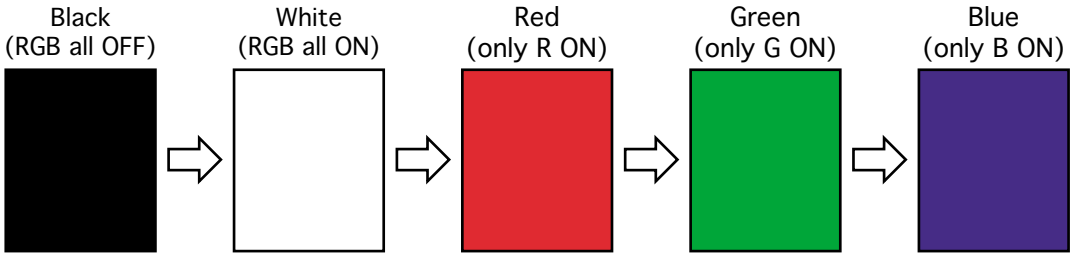
Operation : | n | 0 | 2 | 1 | SUBTOTAL |

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

* When the one time check is selected, the following keys can be used.
OK : 1 NG : 9

[LCD]

① Color LCD test



The test is performed in the above order.
Returns to normal display upon the end of the test, and waits for the input of either “OK” or “NG” key by the operator (when the one time check is selected).
To stop the test, press “Esc” key.

② Display of the start, result and end of the test

```
LCD     n021
LCD     OK
END     n021
```

When “OK” key is pressed. NG is displayed when “NG” key is pressed.

[PRINT]

```
LCD     n021
LCD     OK
END     n021
```

When “OK” key is pressed. NG is printed when “NG” key is pressed.

[12] LCD backlight OFF test

[Function]

This test will check the LCD backlight.
The test ends by the judgment of the operator either by OK or NG only.

[Operation]

The test does not end unless inputting OK or NG key.

Operation : | 1 | | 2 | | 1 | | SUBTOTAL |

OK : 1
NG : 9

[LCD]

```
BACK LIGHT      121
BACK LIGHT      OK
END             121
```

When "OK" key is pressed. NG is displayed when "NG" key is pressed.

[PRINT]

```
BACK LIGHT      121
BACK LIGHT      OK
END             121
```

When "OK" key is pressed. NG is printed when "NG" key is pressed.

[13] REAR DISPLAY test

[Function]

This test will check the rear display.
The display is all lit. When the continuous check is selected, 7 segment and the transaction blinks.
The test ends by the judgment of the operator either by OK or NG only when the one time check is selected.

[Operation]

The test does not end unless inputting OK or NG key when the one time check is selected.

Operation : | n | | 1 | | 2 | | 2 | | SUBTOTAL |

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press "Esc" key)

* When the one time check is selected, the following keys can be used.
OK : 1 NG : 9

[LCD]

* When the one time check is selected

```
REAR DISP       n122
REAR DISP       OK
END             n122
```

When "OK" key is pressed. NG is displayed when "NG" key is pressed.

[REAR DISP display]

When the continuous check is selected, REAR DISP blinks. To clear the REAR DISP, press "Esc" key.
When the one time check is selected, REAR DISP remains.

Example
All lit (7 segment + transaction)

[Print]
* When the one time check is selected
When “OK” key is pressed. NG is printed when “NG” key is pressed.

```
REAR DISP      n122
REAR DISP      OK
END            n122
```

When “OK” key is pressed. NG is printed when “NG” key is pressed.

[14] REMOTE DISPLAY test

[Function]
This test will check the remote display.
Remote display cable connects to COM3.
The test ends by the judgment of the operator either by OK or NG only when the one time check is selected.

[Operation]
The test does not end unless inputting OK or NG key when the one time check is selected.

Operation : | n | a | 2 | 3 | SUBTOTAL |

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)
a: 0 = displays the test characters
1 = displays all dots
The test keeps the display continuously when the continuous check is selected.
* When the one time check is selected, the following keys can be used.
OK : 1 NG : 9

[LCD]
* When the one time check is selected

```
REMOTE DISP    na23
REMOTE DISP    OK
END            na23
```

When “OK” key is pressed. NG is displayed when “NG” key is pressed.

[REAR DISP display]
When the continuous check is selected, VFD scrolls. To clear the VFD, press “Esc” key.
When the one time check is selected, VFD remains.
* Test characters

```
 1234567890ABCDEFGHIJ
 KLMNOPQRSTUVWXYZabcd
```

[Print]
* When the one time check is selected

```
REMOTE DISP    na23
REMOTE DISP    OK
END            na23
```

When “OK” key is pressed. NG is printed when “NG” key is pressed.

[15] External printer print test

[Function]

This test will check the print test for the RS232C I/F printer.
Connect the printer to the COM which is to be tested.

[Operation]

Operation : | x1 | x2 | x3 | n | 0 | 3 | d | SUBTOTAL |

X1: Print test pattern
0 = A pattern, 1 = B pattern
X2: Port selection
1 = COM1, 2 = COM2, 3 = COM3, 4 = COM4
X3: Baud rate selection
1 = 4800 bps, 2 = 9600 bps, 3 = 19.2 kbps
n: 0 = One time check (Can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)
d: Printer type selection
1 = RJ, 2 = SLIP

Note that some printers cannot use certain baud rates. Refer to the list below.
When changing the baud rate, make sure to change the setting for the printer also.

	19.2 Kbps	9600 bps	4800 bps
SLIP PRINTER (SP1300)	X	O	O
RJ PRINTER (UP250/350)	O	O	O

[LCD]

* When the RJ printer is selected

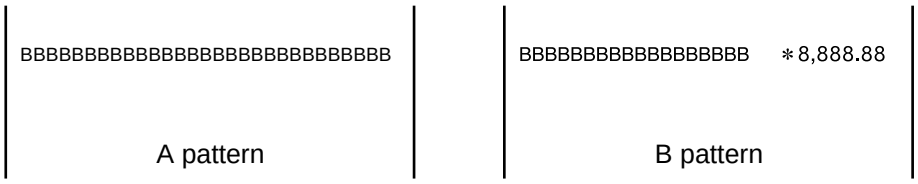
```
PRT          xxxn03d
END          xxxn03d
```

* In case of error
When a printer is not connected

```
NON PRINTER ERR
```

[Print]

Printing pattern is the following 2types.
The number of lines : 40 lines for RJ and 35 lines for SLIP.



[16] Internal printer print test

[Function]

This test will check the characters in the receipt/journal of the internal printer.

[Operation]

Operation : | c | n | 0 | 3 | d | SUBTOTAL |

c: 0 = prints character' B'
1 = prints all characters

n: 0 = One time check (Can be omitted)
not 0 = Continuous check (To stop the test, press "Esc" key)

d: 3 = prints only receipt
4 = prints only journal
5 = prints both receipt/journal (prints alternately)

[LCD]

```
PRT          cn03d
END          cn03d
```

[Print]

1. prints character' B'

```
BBBBBBBBBBBBBBBBBBBBBBBBBBBB
```

2. prints all characters

Refer to the figure in the next page for the characters to be printed.
The printing order is in the order of the character code. The characters from 0x20(SP) to 0xFA(•) are printed.
A space is printed for a code without the printing character.
A character which cannot be printed is a character within the range of the code 0x00 to 0x1F and 0xFB to 0xFF.

[17] Internal printer graphic print test

[Function]

This test will check the graphic patterns in the receipt/journal of the internal printer.

[Operation]

Operation : | P1 | P1 | P1 | P2 | P2 | P2 | n | 1 | 3 | d | SUBTOTAL |

P1:0 = Graphic patter 1 (change 8 bit into a decimal number and input it)
P2:0 = Graphic patter 2 (change 8 bit into a decimal number and input it)
n: 0 = One time check (Can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)
d: 3 = prints only receipt
4 = prints only journal
5 = prints both receipt/journal (prints alternately)

The graphic patterns and the print images are as follows;

Graphic pattern 1
Graphic pattern 2
Graphic pattern 1
Graphic pattern 2

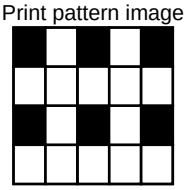
:
: repeat (for 28 Dot line)

* Print patterns and commands

① Receipt, 25% pattern, continuous

0	8	5	0	0	0	1	1	3	3	SUBTOTAL

Print pattern image

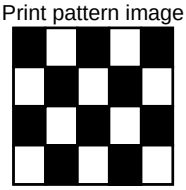


The display unit of the print pattern image in the right is as follows;
Horizontal: dot
Vertical: do line

② Receipt, 50% pattern, continuous

0	8	5	1	7	0	1	1	3	3	SUBTOTAL

Print pattern image

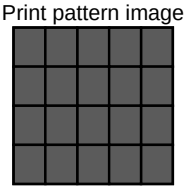


The display unit of the print pattern image in the right is as follows;
Horizontal: dot
Vertical: do line

③ Receipt, 100% pattern, continuous

2	5	5	2	5	5	1	1	3	3	SUBTOTAL

Print pattern image



The display unit of the print pattern image in the right is as follows;
Horizontal : dot
Vertical : do line

[LCD]

PRT	P1P1P1P2P2P2na3d
END	P1P1P1P2P2P2na3d

[Print] Refer to “Print patterns and commands”.

[18] Internal printer dot rate test

[Function]

This test will check the printing of the receipt/journal according to the following specifications.
The printing specification is reflected in 1/2 line and the only specified number of dot lines are printed in all dots from the 1 dot line.
Note that 1/2 line is printed two times because the printing unit is one line.

[Operation]

Operation : | p | n | 3 | 3 | d | SUBTOTAL |

p: 0 = 3 dot line
1 = 5 dot line
2 = 7 dot line

n: 0 = One time check (Can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

d: 3 = prints only receipt
4 = prints only journal
5 = prints both receipt/journal (prints alternately)

[LCD]

```
PRT          pn33d
END          pn33d
```

[Print]

① 3 dot lines

The first 3 dot lines in the 1/2 line (14 dot lines) out of one line are printed in all dots.

3 dot lines (printed in all dots)
11 dot lines (no printing)
→ Printing image of 1/2 line (14 dot lines)
3 dot lines (printed in all dots)
11 dot lines (no printing)
→ Printing image of 1/2 line (14 dot lines)
→ printing image of 1 line (28 dot lines)

② 5 dot lines

The first 5 dot lines in the 1/2 line (14 dot lines) out of one line are printed in all dots.

5 dot lines (printed in all dots)
9 dot lines (no printing)
→ Printing image of 1/2 line (14 dot lines)
5 dot lines (printed in all dots)
9 dot lines (no printing)
→ Printing image of 1/2 line (14 dot lines)
→ printing image of 1 line (28 dot lines)

③ 7 dot lines

The first 7 dot lines in the 1/2 line (14 dot lines) out of one line are printed in all dots.

7 dot lines (printed in all dots)
7 dot lines (no printing)
→ Printing image of 1/2 line (14 dot lines)
7 dot lines (printed in all dots)
7 dot lines (no printing)
→ Printing image of 1/2 line (14 dot lines)
→ printing image of 1 line (28 dot lines)

[19] Internal printer print density test

[Function]

This will set the print density of the internal printer.
This setting is kept until the power is off. The setting will return to the default once the power is turned off.

[Operation]

Operation : | x | 0 | 2 | 3 | 5 | SUBTOTAL |

x: 0 = 1.0 time (default)
1 = 1.1 time
2 = 0.9 time

[LCD]

No display

[Print]

No print

[20] RS232C PORT test

[Function]

This is the RS232C test.
The loop back test for RS232C port is performed by making the connection shown in the figure.
Refer to [21] RS232C PORT batch test the figure for RS232C port connection.

[Operation]

Operation : | x | N | 0 | 4 | d | SUBTOTAL |

x: Baud rate selection
0=2400 bps, 1=4800 bps, 2=9600 bps, 3=19.2 kbps, 7=115 kbps (COM 1 only)
n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)
d: Port selection
1=COM1, 2=COM2, 3=COM3, 4=COM4

[LCD]

* COM 1 test (when input 4 1 #2)

```
COM1                    41
RTS1=1 --> CTS1=1       OK
DTR1=1 --> DSR1=1       OK
DTR1=1 --> CD1=1        OK   ← Displays only COM 1
DTR1=1 --> CI1=1        OK   ← Displays only COM 1
RTS1=0 --> CTS1=0       OK
DTR1=0 --> DSR1=0       OK
DTR1=0 --> CD1=0        OK   ← Displays only COM 1
DTR1=0 --> CI1=0        OK   ← Displays only COM 1
TxD      --> RxD        OK
END                     41
```

[Print]

```
COM1                    41
RTS1=1 --> CTS1=1       OK
DTR1=1 --> DSR1=1       OK
DTR1=1 --> CD1=1        OK   ← Displays only COM 1
DTR1=1 --> CI1=1        OK   ← Displays only COM 1
RTS1=0 --> CTS1=0       OK
DTR1=0 --> DSR1=0       OK
DTR1=0 --> CD1=0        OK   ← Displays only COM 1
DTR1=0 --> CI1=0        OK   ← Displays only COM 1
TxD      --> RxD        OK
END                     41
```

[21] RS232C PORT batch test

[Function]

This is the RS232C port batch test.
The loop back test for RS232C port is performed by making the connection shown in the figure.
When performing this test, fix loop back connectors to all COM ports.

[Operation]

Operation : | 4 | | 0 | | SUBTOTAL |

Baud rate: COM1: 115 kbps, COM 2 – 4 : 9600 bps
Check time: one time

[LCD]

Displays the following.

[Print]

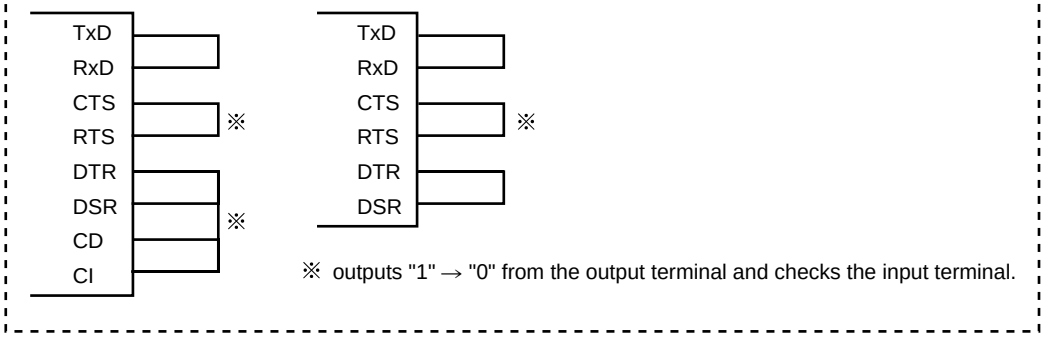
```
COM1                    40
RTS1=1 --> CTS1=1       OK
DTR1=1 --> DSR1=1       OK
DTR1=1 --> CD1=1        OK
DTR1=1 --> CI1=1        OK
RTS1=0 --> CTS1=0       OK
DTR1=0 --> DSR1=0       OK
DTR1=0 --> CD1=0        OK
DTR1=0 --> CI1=0        OK
TxD    --> RxD          OK
RTS2=1 --> CTS2=1       OK
DTR2=1 --> DSR2=1       OK
RTS2=0 --> CTS2=0       OK
DTR2=0 --> DSR2=0       OK
TxD    --> RxD          OK
          :
END                     40
```

COM 1 test result

COM 2 test result

COM3 and COM4 are printed the same way as COM2.

Figure : RS232C port connection

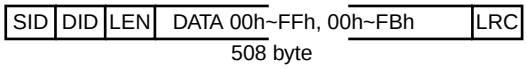


[22] ARCNET test

[Function]

This test will check the counter-communication of ARCNET.
Always make the receive ECR in the wait mode first and then send data from the send ECR.
Continue the test while the communication is done normally.
The counter of the number of receive/send packets to LCD is displayed after the communication normally starts. It is continuously displayed while the communication is done normally.

* send/receive data



1. Normal mode
   When the receive ECR (a=2 below) receives the data normally, the test checks the received data, reverse the received data (FBh – 01h, 00h, FFh – 00h), and sends back the data to the send ECR (a= 1). The send ECR checks the reversed data. (The same repeats hereinafter)
   * Retry
   Receive ECR: Ignores the error until the number of error reaches consecutivel r times. Returns to the wait mode afterwards.
   Send ECR: Sends data one second after the receive ECR does not respond, and retries until r times. Sends an error and ends afterwards.
2. Simultaneous mode
   Checks only the received data when the receive ECR (a=4) receives the data normally.
   The send ECR (a=3) waits for one second and start sending data again. (The same repeats hereinafter)

[Operation]

* Make sure to check the ID upon setting the ID. When changing the ID, turn the power on again.

r	l	l	m	m	x	0	a	5	1	SUBTOTAL

r: the number of retries (1 – 9 times)
Then number of retries will be 5 when 0 or no input.
Note that the retry will be invalid in the simultaneous mode.
ll: ID number of the other ECR
mm: Own ID number
x: Baud rate selection
0=156 kbps, 1=312 kbps
a: Mode selection
1=Send mode, 2=Reception mode, 3=Send mode (Simultaneous)
4=Reception mode (Simultaneous)
The test continues unless an error occurs.
To stop the test, press “Esc” key.

[LCD]

ARCNET	rllmmx0a51
END	rllmmx0a51

* Error display

ARCNET RETRY OVER	Selected retry number was exceeded.
ARCNET BLK ERR	Received does not correspond to the sent Block No.
ARCNET DATA ERR	Received data does not correspond to the sent data.
ARCNET LENG ERR	Received data length does not correspond to the sent data length.
ARCNET TIMEOUT	Time out error when starting the ECR or between blocks.
ARCNET OPEN ERR	ARCNET initialization failed.

[Print]

ARCNET	rllmmx0a51
END	rllmmx0a51

* Error print

ARCNET RETRY OVER	Selected retry number was exceeded.
ARCNET BLK ERR	Received does not correspond to the sent Block No.
ARCNET DATA ERR	Received data does not correspond to the sent data.
ARCNET LENG ERR	Received data length does not correspond to the sent data length.
ARCNET TIMEOUT	Time out error when starting the ECR or between blocks.
ARCNET OPEN ERR	ARCNET initialization failed.

[23] ARCNET batch test

[Function]

This test will perform the ARCNET counter communication with the fixed set value.
Connect the two ECRs and perform the counter communication test.
The number of retries will be displayed in the upper right corner of the LCD.

[Operation]

* Send ECR

Operation : 1 5 0 SUBTOTAL

Fixed set value
ID of the other ECR: 01, Own ID: 02
Mode selection: send mode
Baud rate: 312 kbps
The number of retries = 5

* Receive ECR

Operation : 2 5 0 SUBTOTAL

Fixed set value
ID of the other ECR: 02, Own ID : 01
Mode selection: receive mode
Baud rate: 312 kbps
The number of retries = 5

[LCD]

* Send ECR

ARCNET	150
END	150

* Receive ECR

ARCNET	250
END	250

[Print]

Refer to [22] ARCNET test for the error print.

[24] Time setting

[25] Time display

[Function]

This sets the time and date.

When setting the time, the time and date will be displayed without inputting the fixed value.

[Operation]

* Date and time setting

Operation : | x1 | x2 | x3 | x4 | x5 | x6 | 0 | a | 7 | 0 | SUBTOTAL |

a: 0: time setting x1/x2: time, x3/x4: minutes, x5/x6: second
1: time setting x1/x2: year, x3/x4: month, x5/x6: day
The test will be done one time.

* Date and time display

Operation : | 7 | 0 | SUBTOTAL |

To stop the operation, press “Esc” key. Date and time will be continuously displayed until “Esc” is pressed.

[LCD]

When inputting (70#2)

```
DATE/TIME      70
DATE/TIME      YY/MM/DD HH:MM-SS
END            70
```

The left figure is for date and time display only. When setting the time and date, each data will be displayed.

[Print]

```
DATE/TIME      70
DATE/TIME      YY/MM/DD HH:MM-SS
END            70
```

Each data will be printed only when setting the date and time.

[26] Drawer open test

[Function]

This test will check the drawer open function.

The test ends by the judgment of the operator either by OK or NG only when the one time check is selected.

[Operation]

Operation : | x | n | 0 | 9 | 1 | SUBTOTAL |

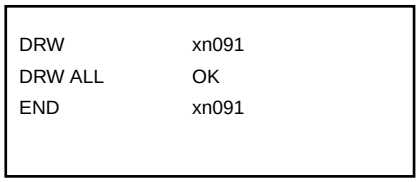
x: 0 = All drawers open (can be omitted)
1 = Drawer 1 open
(The input numbers, for example, 2 and 3, correspond to the drawer numbers. Up to drawer 4 can be tested.)

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

* When the continuous check is selected, the drawer opens every 2 seconds.
* The following “OK” or “NG” key can be used in case of one time check.
”OK” = 1
”NG” = 9

[LCD]

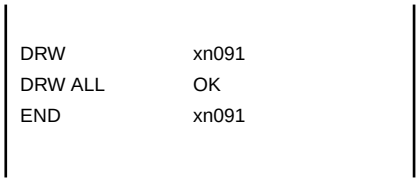
* When all drawers open one time



When “OK” key is pressed. NG is displayed when “NG” key is pressed.

* The status signal is displayed in the status display position of the LCD.
  In case of the continuous check and “all drawers open”, the status is displayed after all drawers have opened.

[Print]



When “OK” key is pressed. NG is printed when “NG” key is pressed.

[27] Buzzer test

[Function]

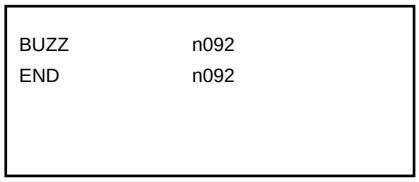
This test will check the buzzer function.
Ring the one-shot buzzer.

[Operation]

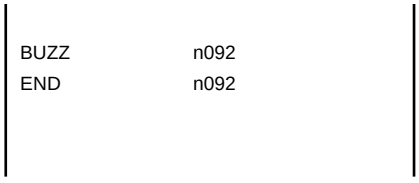
Operation : | n | 0 | 9 | 2 | SUBTOTAL |

n: 0 = One time check (can be omitted)
not 0 = Continuous check (To stop the test, press “Esc” key)

[LCD]



[Print]



[28] KEY dipsplay

[Function]

The key codes for all keys except “Esc” key which are pressed down are displayed.
The key codes are located as shown in the following figure.
Note that “RF” and “JF” do not respond when pressed down during this test.

[Operation]

Operation : | 9 | | 4 | | SUBTOTAL |

To stop the test, press “Esc” key.

[LCD]

```
KEY              94
KEY#mmm
END              94
```

[Print]

No printing is done in this test.

[Location of the key code]

TE-7000S

90	91	92	93	94
95	96	97	98	99

RF	JF	77	10	70	68	66	60	54	48	42	36	30	24	ESC
87	82	76	71	69	67	65	59	53	47	41	35	29	23	17
86	81	75	7	8	9	64	58	52	46	40	34	28	22	16
85	80	74	4	5	6	63	57	51	45	39	33	27	21	15
84	79	73	1	2	3	62	56	50	44	38	32	26	14	20
83	78	72	0	11	12	61	55	49	43	37	31	25	13	19

TE-8000F

152	153	154	155	156
157	158	159	160	161

RF	JF	35	30	ESC
42	39	34	29	20
41	38	33	28	19
40	37	32	27	18
10	36	31	26	17
7	8	9	25	16
4	5	6	24	15
1	2	3	14	23
0	11	12	13	22

51	60	69	78	87	96	105	114	123	132	141	150
50	59	68	77	86	95	104	113	122	131	140	149
49	58	67	76	85	94	103	112	121	130	139	148
48	57	66	75	84	93	102	111	120	129	138	147
47	56	65	74	83	92	101	110	119	128	137	146
46	55	64	73	82	91	100	109	118	127	136	145
45	54	63	72	81	90	99	108	117	126	135	144
44	53	62	71	80	89	98	107	116	125	134	143
43	52	61	70	79	88	97	106	115	124	133	142

TE-8500F

152	153	154	155	156
157	158	159	160	161

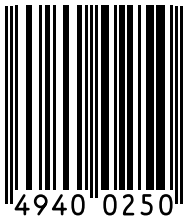
RF	JF	67	76	85	94	103	112	121	130	148	42	38	33	28	ESC
50	58	66	75	84	93	102	111	120	129	147	41	37	32	27	20
49	57	65	74	83	92	101	110	119	128	146	40	36	31	26	19
48	56	64	73	82	91	100	109	118	127	145	39	35	30	25	18
47	55	63	72	81	90	99	108	117	126	144	10	34	29	24	17
46	54	62	71	80	89	98	107	116	125	143	7	8	9	23	16
45	53	61	70	79	88	97	106	115	124	142	4	5	6	22	15
44	52	60	69	78	87	96	105	114	123	141	1	2	3	14	
43	51	59	68	77	86	95	104	113	122	140	0	11	12	13	

[29] OBR test

[Function]

This is a scanner test. The test enters the wait mode for the scanner input, and waits only for scanner. The test determines the result between OK and NG by comparing the fixed data and the read data. Make sure to connect OBR (HHS-15) to COM 2.

* The fixed barcode is as follows.



[Operation]

Operation : | 9 | | 5 | | SUBTOTAL |

To stop the test, press “Esc” key.

[LCD]

```
OBR          95
OBR          OK
OBR          * * * * * * * * * *
END          95
```

← Waiting
← OK if the read data is correct.
← Displays the barcode when the data is incorrect.

[Print]

```
OBR          95
OBR          OK
OBR          * * * * * * * * * *
END          95
```

10. ERROR CODE LIST

10-1. When an error occurs

Errors are indicated by an error codes. When this happens, you can usually find out what the problem is as illustrated below.
Press Ⓒ and check the appropriate section of this manual for the operation you want to perform.

Prompt message	Meaning	Action
Operator mistake.	Operation error	Perform proper operation.
E001 Wrong Mode.	Check tracking (Open mode error)	Return the mode to its original setting.
E003 Wrong operator.	Error clerk/Error clerk in check tracking	Input correct check number or assign the proper clerk.
E005 Insufficient memory.	Memory allocation over	Reallocate memory.
E011 Close the drawer.	Drawer compulsory	Close cash drawer.
E012 Journal paper end.	Journal paper end	Replace journal paper.
E014 Receipt paper end.	Receipt paper end	Replace receipt paper.
E015 Check R/J printer.	Internal R/J printer error	Check the intermal R/J printer.
E016 Change back to REG mode.	Prohibit plural operation in RF/REG– mode	Switch to another mode and then back to the RF/REG– mode again.
E017 Enter Check/TBL number.	Check number compulsory	Input a check number.
E018 Enter Table number.	Table number compulsory	Input a table number.
E019 Enter Number of covers.	Cover compulsory	Enter the number of customers.
E020 Enter Seat number.	Seat number compulsory	Input a seat number.
E023 Stock running short.	Alarm when any item drops below its programmed minimum stock quantity during registration.	Perform stock maintenance.
E024 No stock is available.	Error when actual stock value for a registration items is a negative value.	Perform stock maintenance.
E026 Condiment Stay down Compulsory ERR. Enter condiment Item(s).	Stay down compulsory	Enter condiment item(s).
E028 Not found PLU or C/D is mismatch.	Scanning PLU is not found or OBR code is mismatched.	PLU code is not found or re-enter the PLU code.
E029 No registration is possible while you are in the tender operation.	Attempted registration whilstpartial tender operation is being done.	Finalize the transaction.
E031 Press ST key before Finalization.	ST compulsory	Press ST key.
E033 Enter tendered amount.	Amount tender compulsory	Enter tendered amount.
E035 Change amount exceeds the limit.	Change amount exceeds the limit.	Enter amount tendered again.
E036 Remove money from the drawer.	Contents of the drawer exceed the programmed limit —Sentinel function.	Perform pickup operation.
E037 Digit or Amount Limitation Over.	H.D.L., H.A.L.O error	Enter correct unit price/amount.
E038 Perform Money Declaration	Money declaration compulsory	Perform money declaration.
E040 Issue Guest Receipt.	Guest receipt compulsory	Issue a guest receipt.
E041 Print Validation.	Validation compulsory	Perform validation operation.
E044 Print Cheque.	Check print compulsory	Perform check print operation.
E045 Print Check-Endorsement.	Check endorsement compulsory	Perform check endorsement operation.
E046 REG Buffer Full. Please Finalize or NB.	Registration buffer full	Finalize the transaction. Allocate sufficient buffer.
E047 Print bill.	Slip compulsory	Perform slip printing operation.
E048 Insert Slip Paper and retry.	Alarm when no paper is inserted in the Slip.	Insert new slip paper.
E049 CHECK memory full	Check tracking index full/near end	Finalize and close the check number currently used.

Prompt message	Meaning	Action
E050 Detail memory Full.	Check tracking memory full/near end	Finalize and close the check number currently used.
E051 CHK/TBL No. is occupied.	Attempt is made to use the <NEW CHECK> key to open a new check using a number that is already used for an existing check tracking memory.	Finalize and close the check that is currently under thenumber that you want to use or use a differrent check number.
E052 CHK/TBL No. is busy.	Attempt to use the same check number whilst the specified number is being used in the other terminal.	Use another check number or close the check at that terminal.
E053 CHK/TBL No. is not opened.	Check number not found	Use the correct check number (if you want to reopen a check that already exists in the check tracking memory) or use <NEW CHECK> to open a new check.
E054 Out of CHK/TBL No. Range	Check number range over	Enter correct number.
E056 Store range full.	All check number are occupied in range.	Recall the stored data.
E057 No item exists in detail.	Round repeat cannot be found in detail.	
E058 Enter post entry item.	Post entry item exists in detail.	Enter Post entry item.
E059 Press Eat-in or Take-out key.	Press eat-in or take-out key.	Press Eat-in or Takeout key.
********** E060 Printer offline.	Printer offline. "****" means ECR logical ID and priter number.	Printer offline
********** E061 Printer error	Printer downed. "****" means ECR logical ID and printer number.	The contents are printed on the backup printer.
********** E061 Printer error YES :Retry to print NO :Backup to R/J printer ESC :Discard data	Printer downed. "****" means ECR logical ID and printer number.	Follow the prompt message.
********** E062 Printer paper end	Paper near-end/end "****" means ECR logical ID and printer number.	The contents are printed on the backup printer.
********** E062 Printer paper end YES :Retry to print NO :Backup to R/J printer ESC :Discard data	Paper near-end/end "****" means ECR logical ID and printer number.	Follow the prompt message.
E064 Printer buffer full YES :Retry to print NO :Backup to R/J printer ESC :Discard data	Print buffer full at sender side	Follow the prompt message.
********** E070 Terminal out of action. Cannot print.	Down at target ECR which has printer "****" means ECR logical ID and printer number.	
********** E071 Target terminal printer BF full. YES :Retry to print NO :Backup to R/J printer ESC :Discard data	Printer buffer full at target ECR which has printer "****" means ECR logical ID and printer number.	Follow the prompt message.
********** E072 Target printer terminal is busy.	Busy at target ECR which printer "****" means ECR logical ID and printer number.	
********** E073 Your receipt/order may not be issued. YES :Retry to print NO :Backup to R/J printer ESC :Discard data	Time out at ECR which has has printer "****" means ECR logical ID and printer number.	Follow the prompt message.

Prompt message	Meaning	Action
E075 Negative Balance. Cannot be finalized.	Attempted finalization when balance is less than zero.	Register item(s) until the balance becomes positive amount.
E080 Electronic Journal Full Please clear E-Journal.	Electronic journal full	Reset the electronic journal memory.
E082 ***** Illegal Data *****	Illegal Electronic journal data	
E083 Cannot create E-Journal. Check Flash memory.	Electronic journal file cannot be created.	Check flash memory.
********** E105 Check/TBL Tracking Master down. Please call Manager. YES :Retry for connection. NO :Remove it from system.	CHK master down "****" means ECR logical ID.	Follow the prompt message.
********** E106 Check/TBL Tracking Backup master down. Please call Manager. YES :Retry for connection. NO :Remove it from system.	CHK BM down "****" means ECR logical ID.	Follow the prompt message.
********** E107 Both Master&Backup master down. CHK/TBL tracking or Clerk interrupt is not available.	CHK M/BM down "****" means ECR logical ID.	
********** E108 CHK/TBL Master is removed from system.	Master down then take it off from system "****" means ECR logical ID.	
********** E109 CHK/TBL Backup master is removed from system.	Backup master down then take it off from system "****" means ECR logical ID.	
E110 CHK data mismatch between Master and Backup master.	Data mismatch has occurred.	
E130 Middle of Pick up or Loan Press Cancel Key.	During picking up	Follow the promot message.
E131 Middle of <Bill Copy> Press Cancel key.	During bill copy	Follow the prompt message.
E133 Middle of <Media Change> Press Cancel key.	During media chang	Folow the prompt message.
E134 Middle of Clerk Transfer Press ESC key.	During clerk transfer	Follow the prompt message.
E136 Middle of <Separate Check> Press ESC key.	During separate check	Follow the prompt message.
E139 Not allowed to be negative by Minus/Coupon key.	Credit balance error	Enter proper minus/coupon amount.
E140 Wrong menu.	This sheet holder is prohibited by program.	Set correct sheet holder.
E141 Press <TRAY TOTAL> twice before finalization.	<TRAY TOTAL> key is not pressed twice before finalization.	Follow the prompt message.
E145 Arrangement syntax error.	Arrangement syntax error	Program the arrangement again.
E150 Incorrect value entry.	Incorrect entry for PGM	Enter proper value again.
E151 Incorrect key Pressed.	Linking is incorrect.	Enter proper key again.
E152 PGM File or Memory number does not Exist.	No such file, no such record	Enter file/record number again.
E164 Empoloyee No. is not Found in the Employee File.	Employee No. is not set in the Employee File.	Enter employee number again.
E165 Employee No. is not Clocking-in	Employee has not done CLOCK-IN operation yet.	Perform CLOCK-IN operation.
E166 Employee No. is Occupied	Employee who has done CLOCK-IN operation attempts to operate CLOCK-IN again.	Enter the proper employee number again.
E167 Incorrect JOB code	Employee attempts to operate CLOCK-IN with incorrect JOB code.	Enter proper job code.
E168 Your Operation is out of Schedule. Please Call Manager.	Employees operate CLOCK-OUT in not allowance time.	Follow the prompt message.

Prompt message	Meaning	Action
E169 Work Hours Exceeded. Please Call Manager.	Overtime work.	Follow the prompt message.
E170 No Shift Reminds in the Schedule. You cannot Clock-in.	There is no available shift left.	
E171 Please Break-out and Retry.	Employee attempts to operate CLOCK-OUT whilst he/she is in a break time.	Follow the prompt message.
E172 Break Hours Exceeded. Please Call Manager.	Break hours are exceeded.	Follow the prompt message.
E173 This employee is at work now.	Employee is at work without break.	
E174 This employee is taking a break now.	Employee who has not done BREAK-OUT operation attempts to operate BREAK-IN.	
E175 Please Clock-in/Break-out before you sign on. or Please Call Manager.	Sign on after you clock-in or break out.	Follow the prompt message.
E176 You cannot Clock-in. Please reset Employee Report.	Employee Report.	Follow the prompt message.
E177 Time&Attendance Data Communication Error. Please Call Manager.	Time & Attendance Data communication error.	Follow the prompt message.
E180 IDC FILE (1) memory full. Please clear IDC data.	IDC FILE (1) memory is full of items.	Follow the prompt message.
E181 IDC FILE (2) memory full. Please clear IDC data.	IDC FILE (2) memory is full of items.	Follow the prompt message.
E182 IDC FILE (3) memory full. Please clear IDC data.	IDC FILE (3) memory is full of items.	Follow the prompt message.
E200 Insert CF card.	CF card is not inserted to the slot.	Insert CF card.
E201 Format error.	CF card data or formats illegal.	Check the CF card.
E203 Insufficient memory.	Insufficient memory is remained in CF card.	Format or use a new CF card.
E205 The file already exists. Do you want to replace? YES :Replace the file. NO :Input new name.	File name duplication error	Follow the prompt message.

10-2. OS Fatal Error

When a fatal error occurs in the OS operation, normal operation cannot be done afterwards.
Please carry out the following to stop the ECR operation.
When this error occurs, contact Casio Techno to inform of Error NO and Error code.

```
OS Fatal Error!!
Error No.1
Error Code -13
```

10-3. CPU Exceptional Error

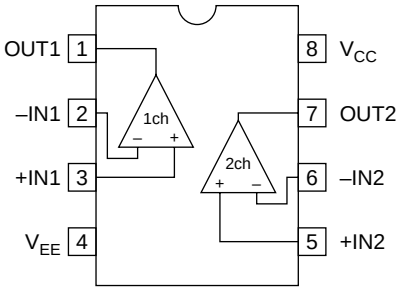
Exceptional transaction is one of the CPU (SH series) function.
When the exceptional transaction except reset and general interruption (referred as “general exception”) occurs, the operation cannot be guaranteed afterwards. Please carry out the following to top the ECR operation.
This error may be caused by the following reasons.

- CPU defect
- software defect
- abnormal charge of the RAM backup battery

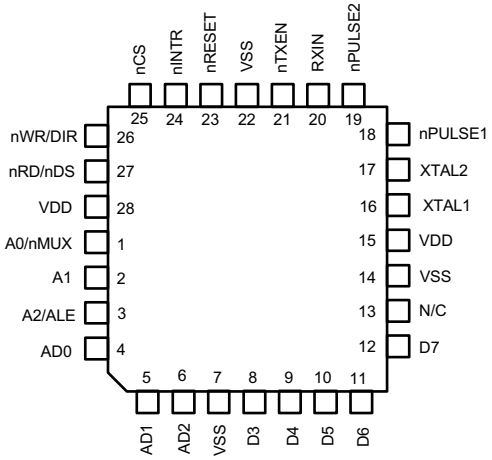
```
CPU Exceptional Error !
error no. 180
error point ffffd47e
access adrs 0
```

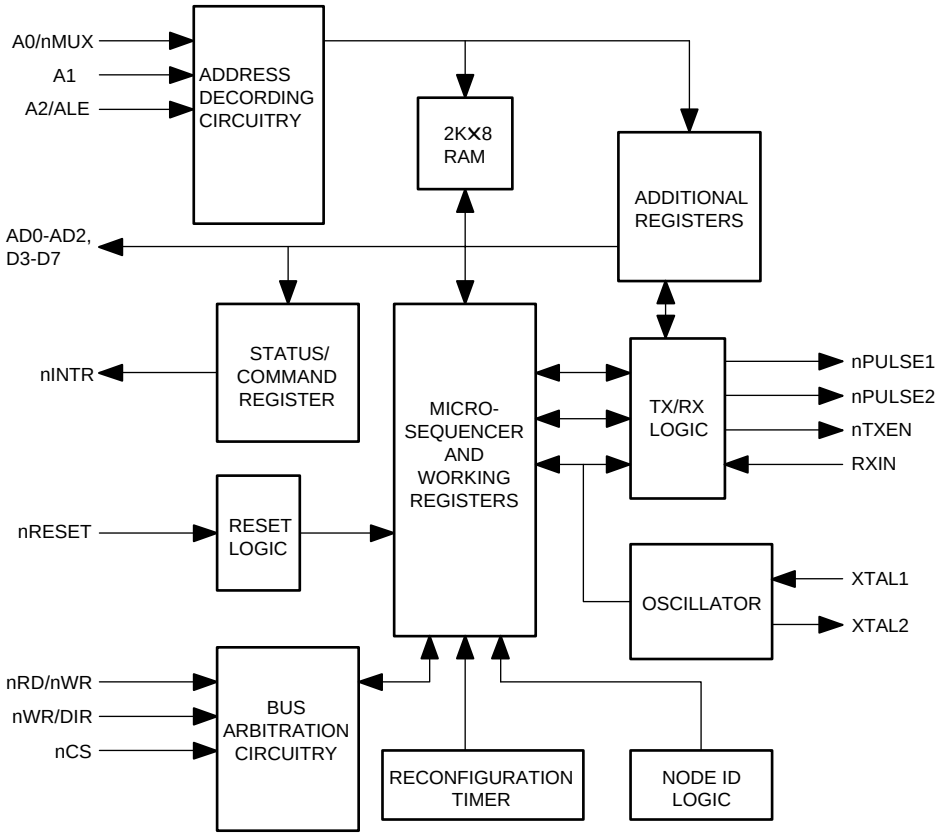
11. IC DATA

1. BA10393F-E2 (IC7, 39)



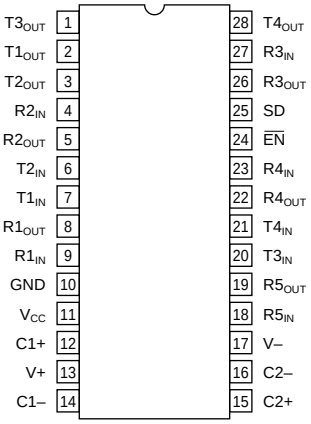
2. COM20019ILJP (IC11)

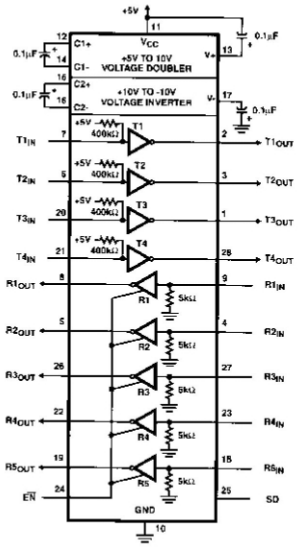




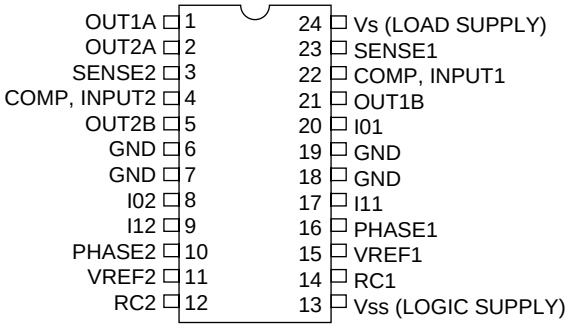
3. HIN211CA-T (IC1, 2, 3)

HIN211E (SOIC, SSOP)
TOP VIEW

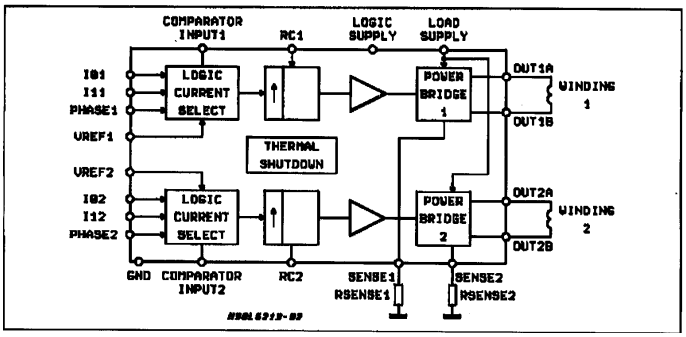




4. L6219DS (IC35, 36)



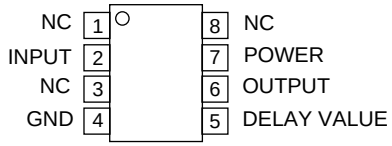
BLOCK DIAGRAM

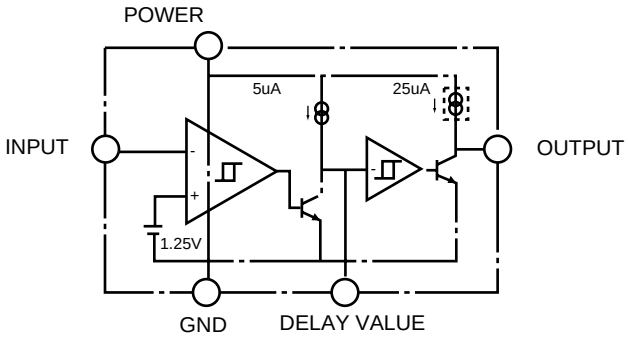


PIN FUNCTIONS

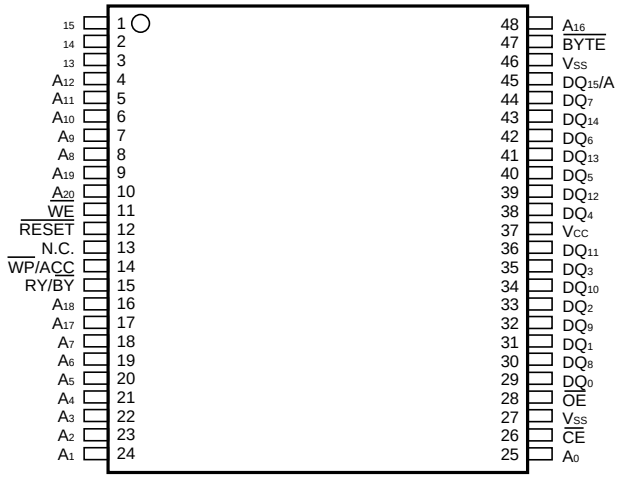
PLCC (*)	PDIP & SO	Name	Function
1;2	1;2	OUTPUT A	See pins 5;21.
4;42	3;23	SENSE RESISTOR	Connection to Lower Emitters of Output Stage for Insertion of Current Sense Resistor.
5;41	4;22	COMPARATOR INPUT	Input connected to the comparators. The voltage across the sense resistor is feedback to this input throught the low pass filter RC CC. The higher power transistors are disabled when the sense voltage exceeds the reference voltage of the selected comparator. When this occurs the current decays for a time set by R_T C_T (t_{off} = 1.1 R_T C_T). See fig.1.
8;38	5;21	OUTPUT B	Output Connection. The output stage is a “H” bridge formed by four transistors and four diodes sultable for switching applications.
6;7;17	6;19	GROUND	See pins 7;18.
29;39; 40	7;18	GROUND	Ground Connection. With pins 6 and 19 also conducts heat from die to printed circuit copper.
16;37	8;20	INPUT 0	See INPUT 1 (pins 9;17).
19;30	9;17	INPUT 1	These pins and pins 8;20 (INPUT 0) are logic inputs which select the outputs of the comparators to set the current level. Current also depends on the sensing resistor and reference voltage. See Functional Description.
20;27	10;16	PHASE	This TTL-compatible logic Inputs sets the direction of current flow through the load. A high level causes current to flow from OUTPUT A (source) to OUTPUT B (sink). A schmitt trigger on this input provides good noise immunity and a delay circuit prevents output stage short circuits during switching.
21;26	11;15	REFERENCE VOLTAGE	A voltage applied to this pin sets the reference voltage of the comparators, this determining the output current (also thus depending on Rs and the two inputs INPUT 0 and INPUT 1).
22;25	12;14	RC	A parallel RC network connected to this pin sets the OFF time of the higher power transistors. The pulse generator is a monostable triggered by the output of the comparators (t_{off} = 1.1 R_T C_T).
24	13	V_{SS}-LOGIC SUPPLY	Supply Voltage Input for Logic Circuitry.
44	24	V_S-LOAD SUPPLY	Supply Voltage Input for the Output Stages.

5. M51957BFP-T1 (IC17)



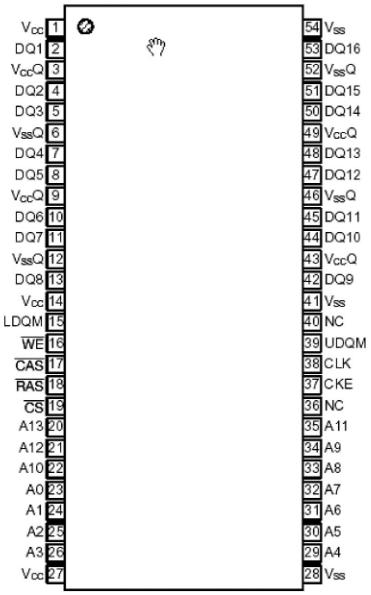


6. M51957BFP-T1 (IC19)



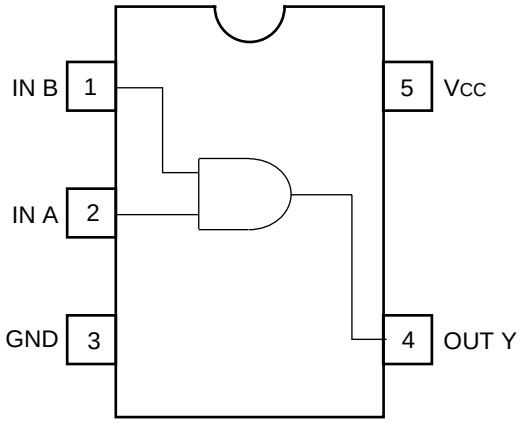
PIN NAME	Function	PIN NAME	Function
A1, A0 ~ A20	ADDRESS INPUT	RY/$\overline{BY}$	RADY/BUSY
DQ0 ~ DQ15	DATA	$\overline{BYTE}$	8 bit/16 bit
$\overline{CE}$	CHIP ENABLE	$\overline{WP}$/ACC	WRITE PROTECT/ ACCELERATOR
$\overline{OE}$	OUTPUT ENABLE	VSS	GND
$\overline{WE}$	WRITE ENABLE	VCC	POWER SUPPLY
$\overline{RESET}$	RESET	N.C.	NOT USED

7. MD56V62160E-10TAB0 (IC18)

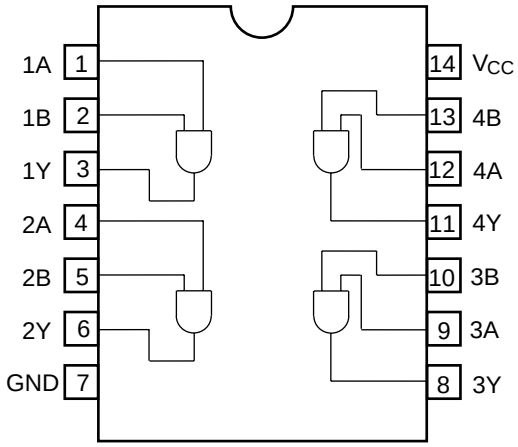


PIN NAME	Function	PIN NAME	Function
CLK	SYSTEM CLOCK	UDQM, LDQM	IO DATA MASK
$\overline{CS}$	CHIP SELECT	DQi	I/O DATA
CKE	CLOCK ENABLE	Vcc	POWER SUPPLY
A0~A11	INPUT ADDRESS	Vss	GND
A12, A13	INPUT ADDRESS SELECT	VccQ	OUTPUT POWER SUPPLY
$\overline{RAS}$	ROW ADDRESS STROBE	VssQ	OUTPUT GND
$\overline{CAS}$	COLUMN ADDRESS STROBE	NC	NOT USED
$\overline{WE}$	WRITE ENABLE		

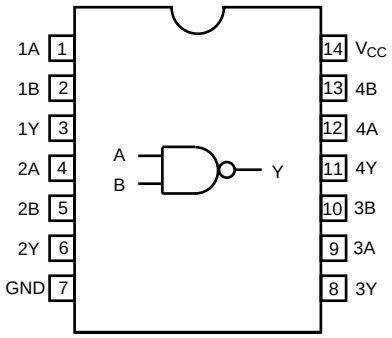
8. SN74AHC1G08DVKR (IC37)



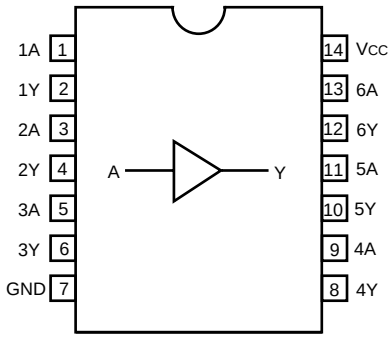
9. SN74AHCT08PWR (IC20)



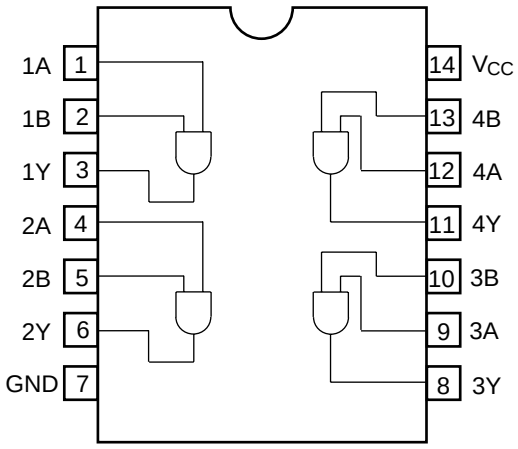
10. SN74LV00APWR (IC16)



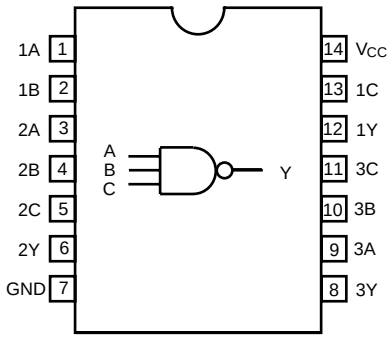
11. SN74LV07APWR (IC32)



12. SN74LV08APWR (IC31, 34)

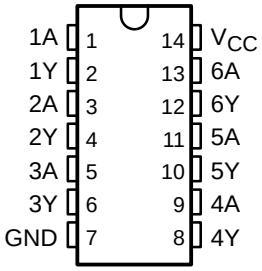


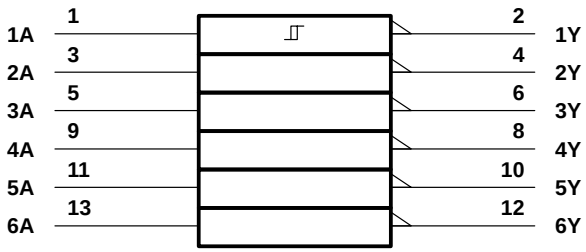
13. SN74LV10APWR (IC15)

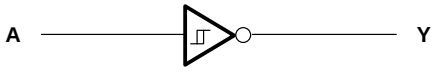


14. SN74LV14APWR (IC8)

(TOP VIEW)



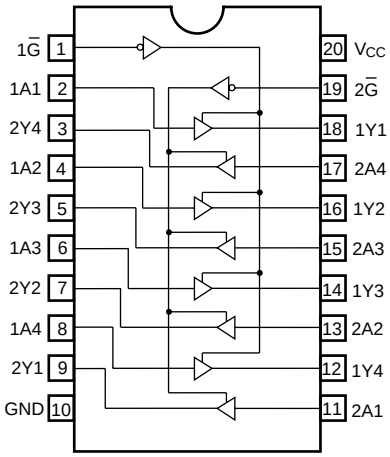




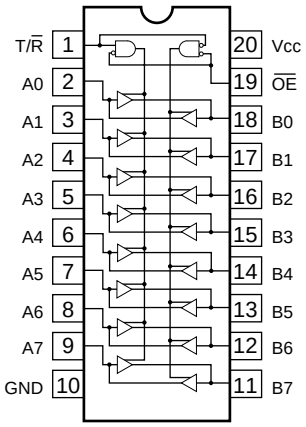
FUNCTION TABLE
(each inverter)

INPUT A	OUTPUT Y
H	L
L	H

15. SN74LV244APWR (IC9)/ SN74LVC244APWR (IC27, 28)



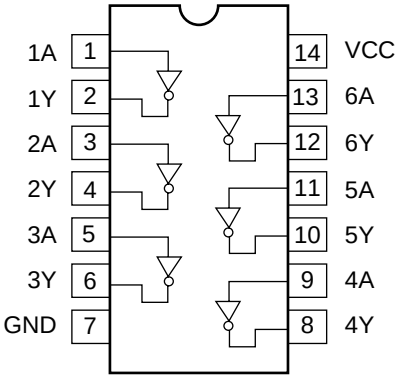
16. SN74LVC245APWR (IC29, 30)



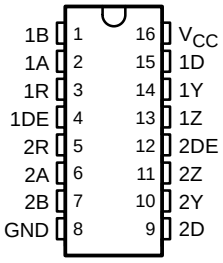
Inputs		Output Y
$\overline{OE}$	T / $\overline{R}$	
L	L	Bus B Data to Bus A
L	H	Bus A Data to Bus B
H	X	Z

H : High
L : Low
X : Don't care
Z : High impedance

17. SN74LVU04APWR (IC22)



18. SN751178NSR (IC14)



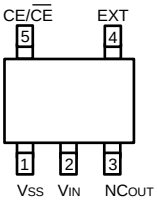
INPUT D	ENABLE DE	OUTPUTS Y	OUTPUTS Z
H	H	H	L
L	H	L	H
X	L	Z	Z

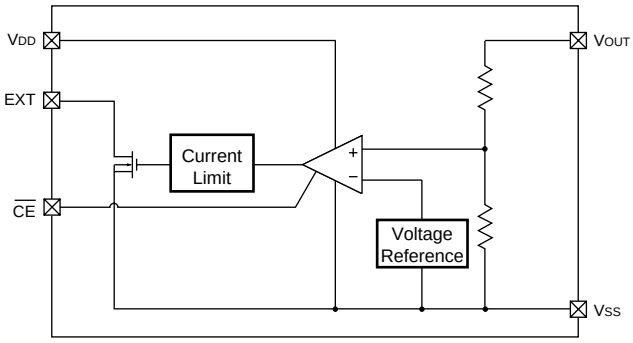
H = high level,
L = low level,
X = irrelevant,
Z = high impedance (off)

DIFFERENTIAL INPUTS A ± B	OUTPUT R
V_{ID} . 0.2 V	H
±0.2 V < V_{ID} < 0.2 V	?
V_{ID} 3 ±0.2 V	L

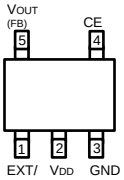
H = high level,
L = low level,
? = indeterminate

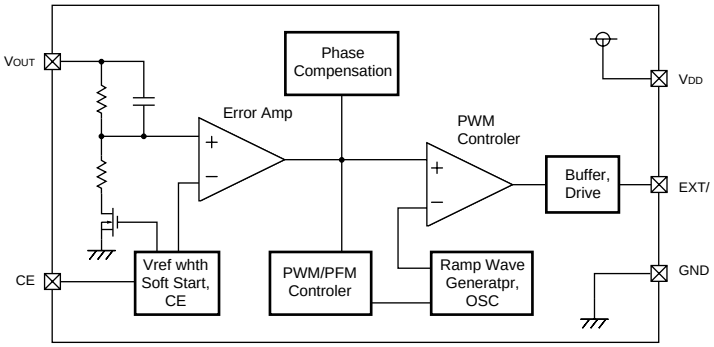
19. XC62EP1902MR (IC5)





20. XC6365A363MR (IC4)

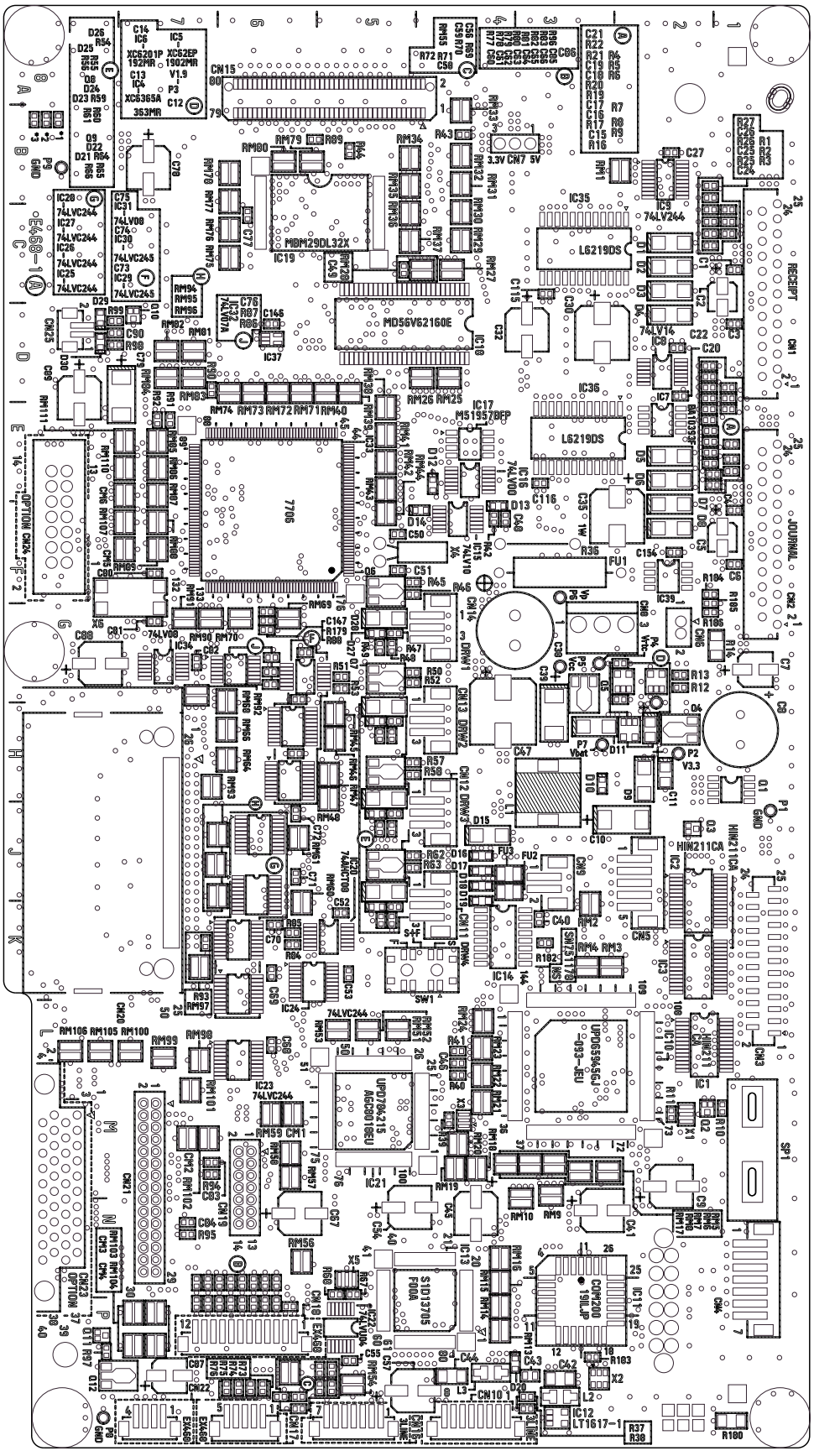




12. PCB LAYOUT

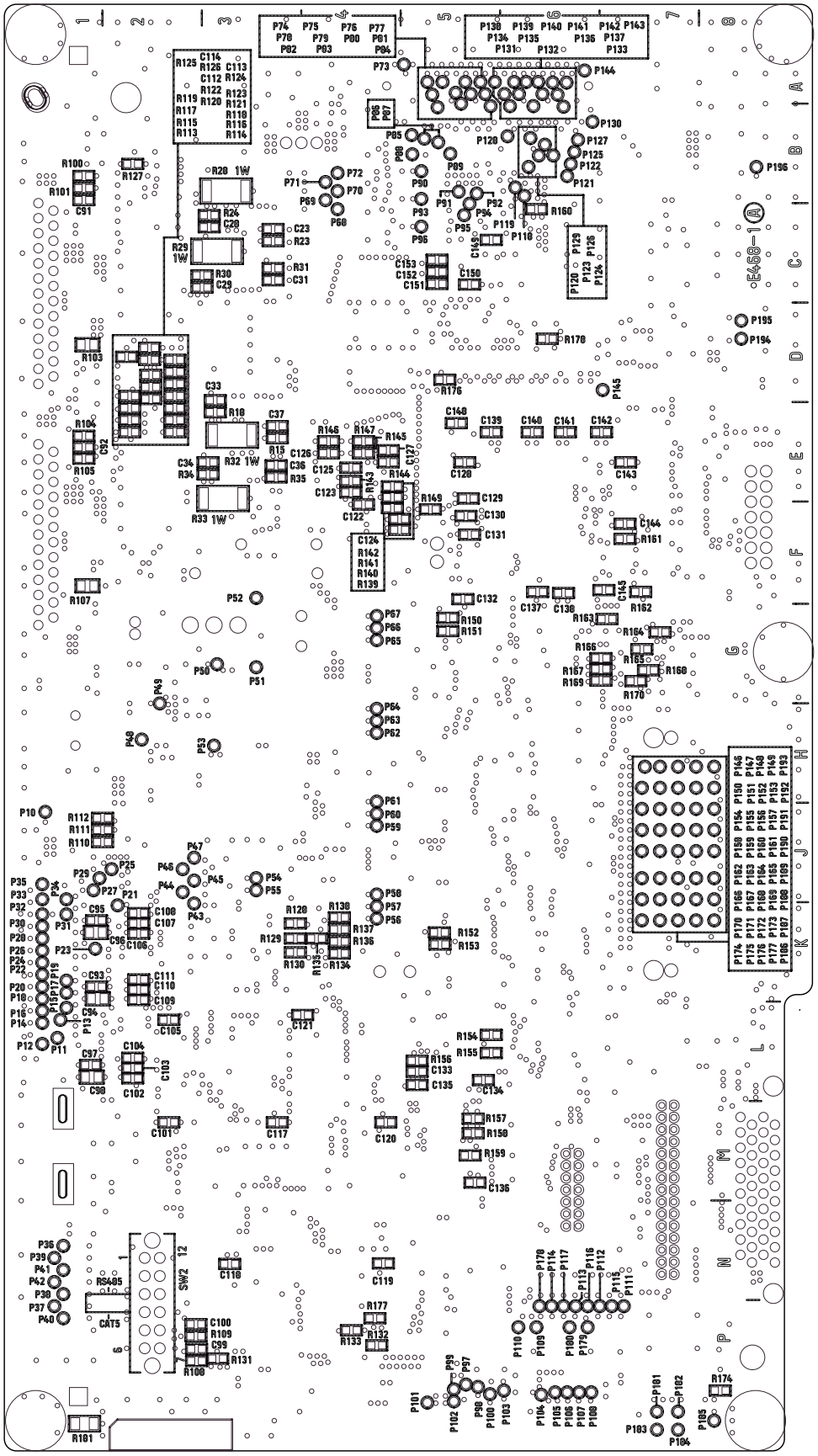
MAIN PCB (E468-1 PCB)

(TOP VIEW)



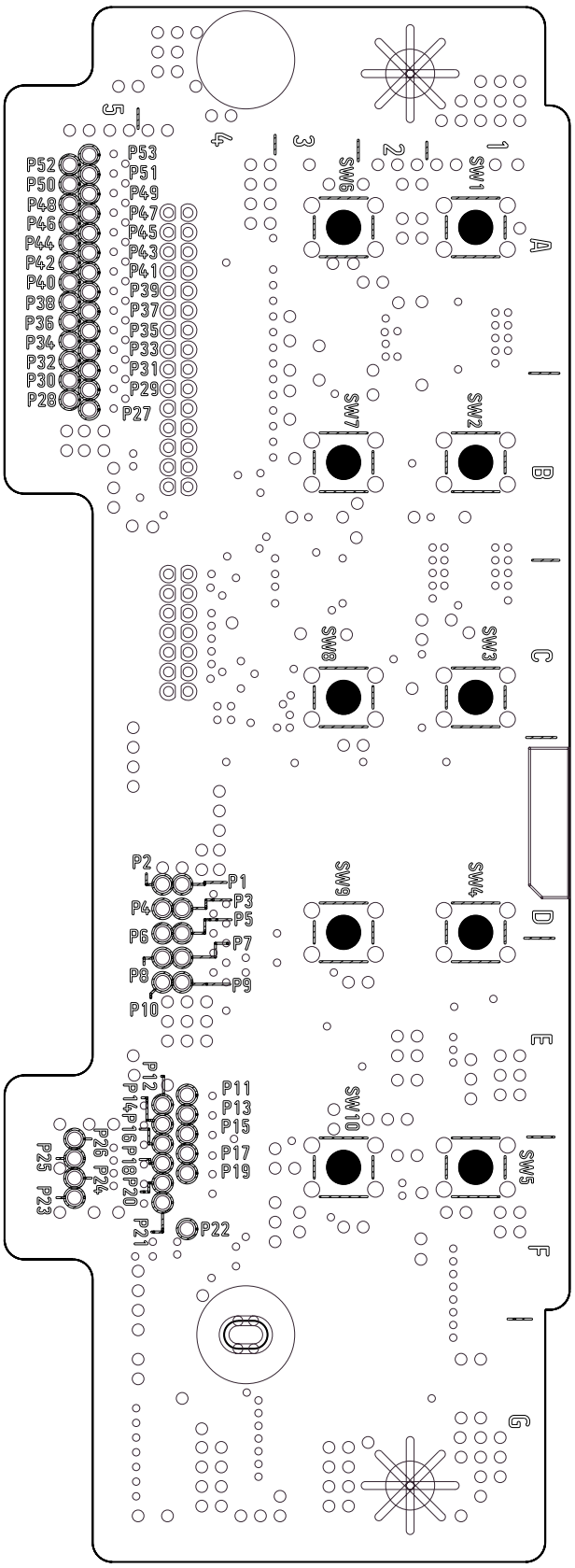
MAIN PCB (E468-1 PCB)

(BOTTOM VIEW)

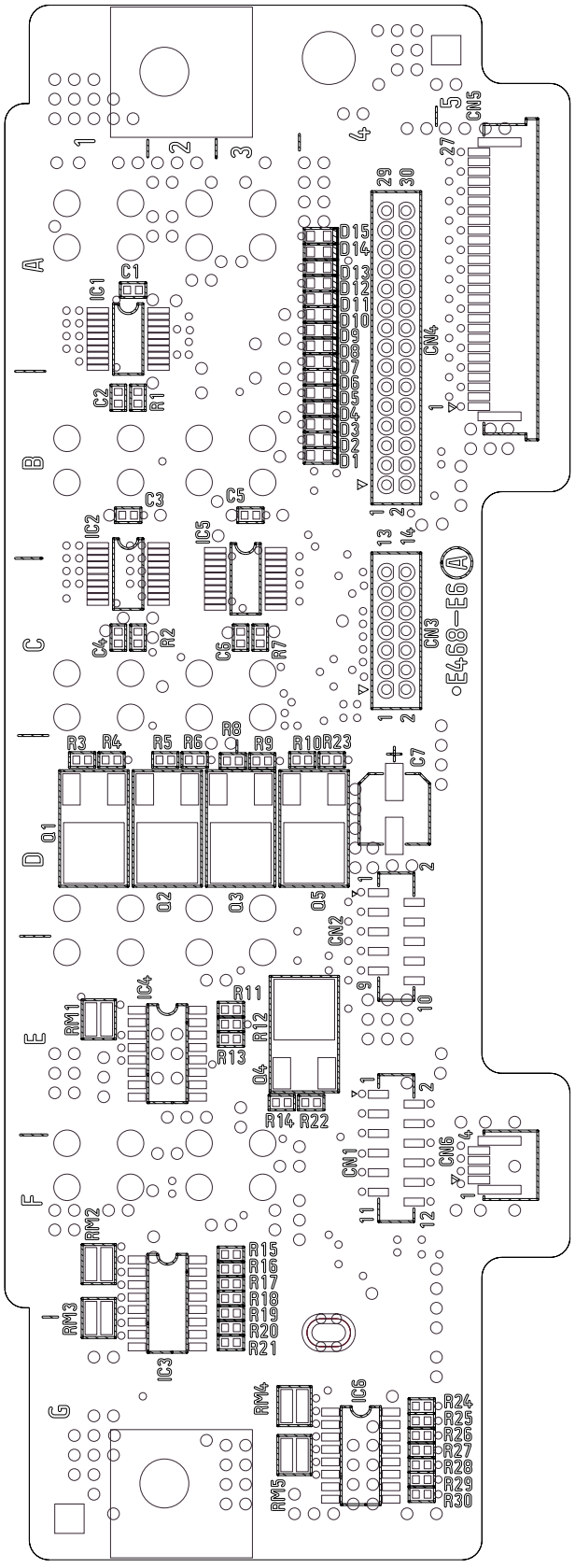


TACT SW PCB (E468-E6 PCB)

(TOP VIEW)

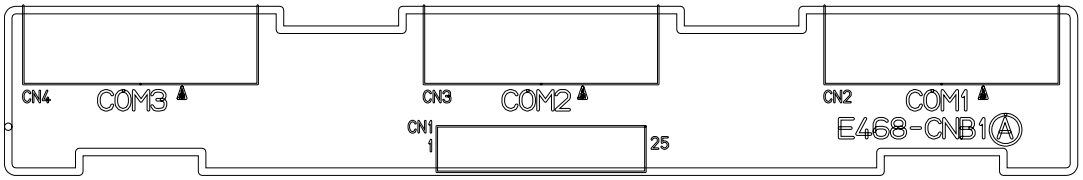


(BOTTOM VIEW)

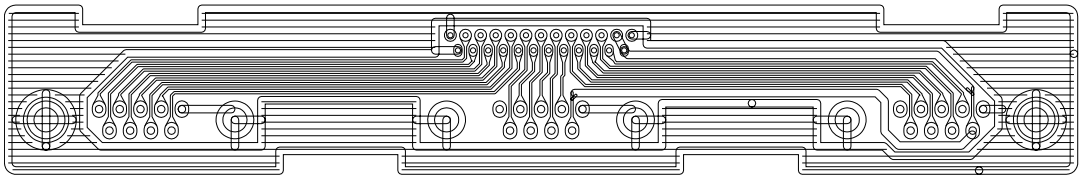


CONNECTOR PCB (E468-CNB1 PCB)

(TOP VIEW)

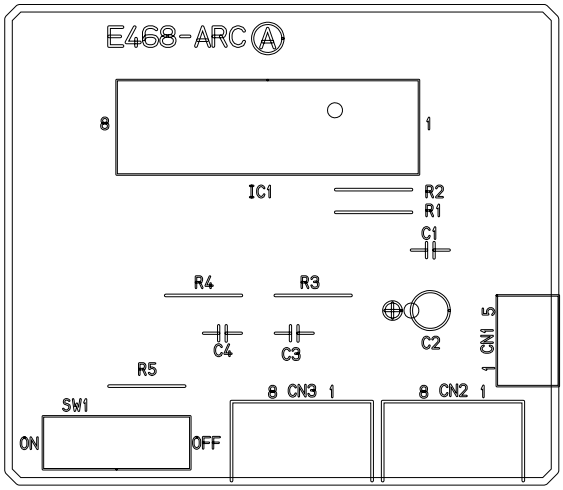


(BOTTOM VIEW)

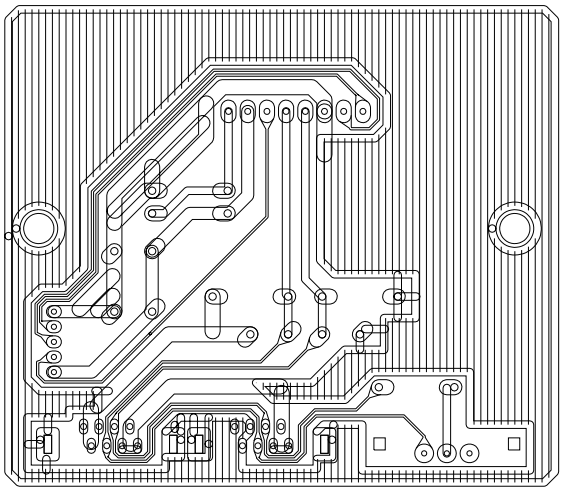


ARCNET PCB (E468-ARC PCB)

(TOP VIEW)

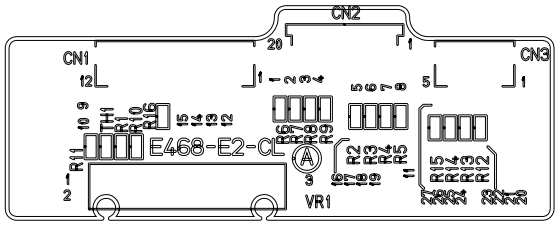


(BOTTOM VIEW)

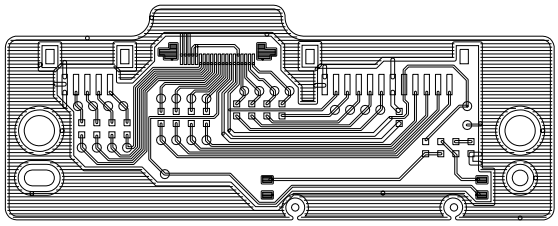


LCD PCB (E468-E2-CL PCB)

(TOP VIEW)

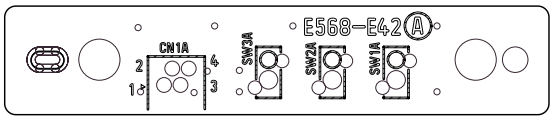


(BOTTOM VIEW)

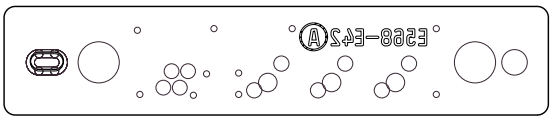


MENU SW PCB (E568-E42 PCB) TE-8000F only

(TOP VIEW)



(BOTTOM VIEW)



13. CIRCUIT DIAGRAM

MODEL : TE-7000S/8000F/8500F

(EX-468/568/569)

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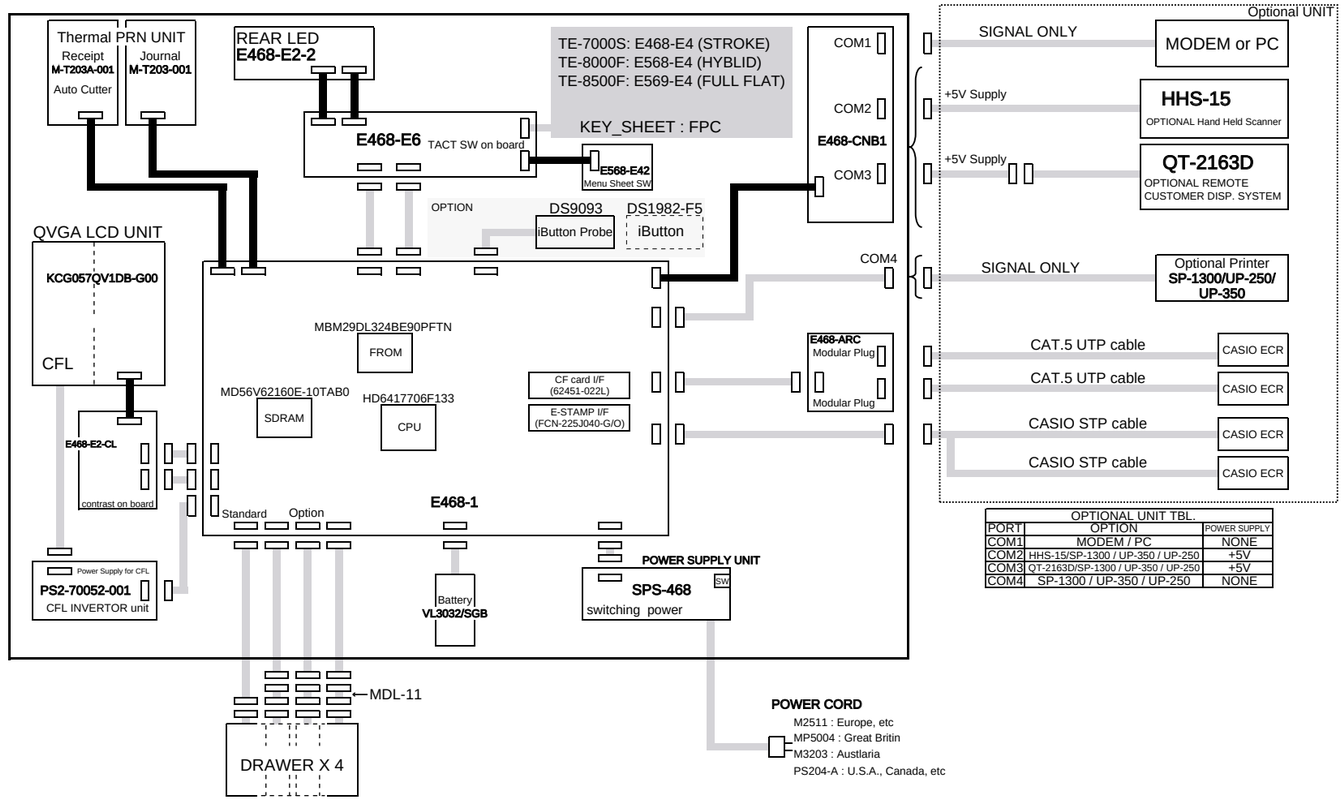
6. ARCNET PCB CIRCUIT 100

7. LCD PCB CIRCUIT 101

8. MENU SW PCB CIRCUIT 102



OPTIONAL UNIT TBL.		
PORT	OPTION	POWER SUPPLY
COM1	MODEM / PC	NONE
COM2	HHS-15/SP-1300 / UP-350 / UP-250	+5V
COM3	QT-2163D/SP-1300 / UP-350 / UP-250	+5V
COM4	SP-1300 / UP-350 / UP-250	NONE

TE-7000S: E468-E4 (STROKE)

RECEIPT FEED	JOURNAL FEED	C	X	VOID		RC	PD	6	12	18	24	MENU SHIFT	ESC/ SKIP
RECEIPT	OPEN					PRICE	LIST#	5	11	17	23	CR 1	CR 2
MEDIA CHANGE	#/NS	7	8	9		COVERS	TABLE TRANS	4	10	16	22	CH	CHK/ TEND
% –	PLU	4	5	6	NO	↑	PAGE UP	3	9	15	21	NEW/OLD CHK	NB
—		1	2	3	←	HOME	→	2	8	14	20	SUB TOTAL	
RF	CANCEL	0	00	•	YES	↓	PAGE DOWN	1	7	13	19	CA ⁄ AMT TEND	

TE-8000F: E568-E4 (HYBLID)

RECEIPT FEED	JOURNAL FEED	RC	PD	ESC/ SKIP	9	18	27	36	45	54	63	72	81	90	99	108
RECEIPT	OPEN	NO	↑	PAGE UP	8	17	26	35	44	53	62	71	80	89	98	107
MENU SHIFT	—	←	HOME	→	7	16	25	34	43	52	61	70	79	88	97	106
RF	%—	YES	↓	PAGE DOWN	6	15	24	33	42	51	60	69	78	87	96	105
C	X	VOID	CANCEL	#/NS	5	14	23	32	41	50	59	68	77	86	95	104
7	8	9	CR	CHK/ TEND	4	13	22	31	40	49	58	67	76	85	94	103
4	5	6	NEW/ OLD CHK	NB	3	12	21	30	39	48	57	66	75	84	93	102
1	2	3	SUB TOTAL		2	11	20	29	38	47	56	65	74	83	92	101
0	00	.	CA/AMT TEND		1	10	19	28	37	46	55	64	73	82	91	100

TE-8500F: E569-E4 (FULL FLAT)

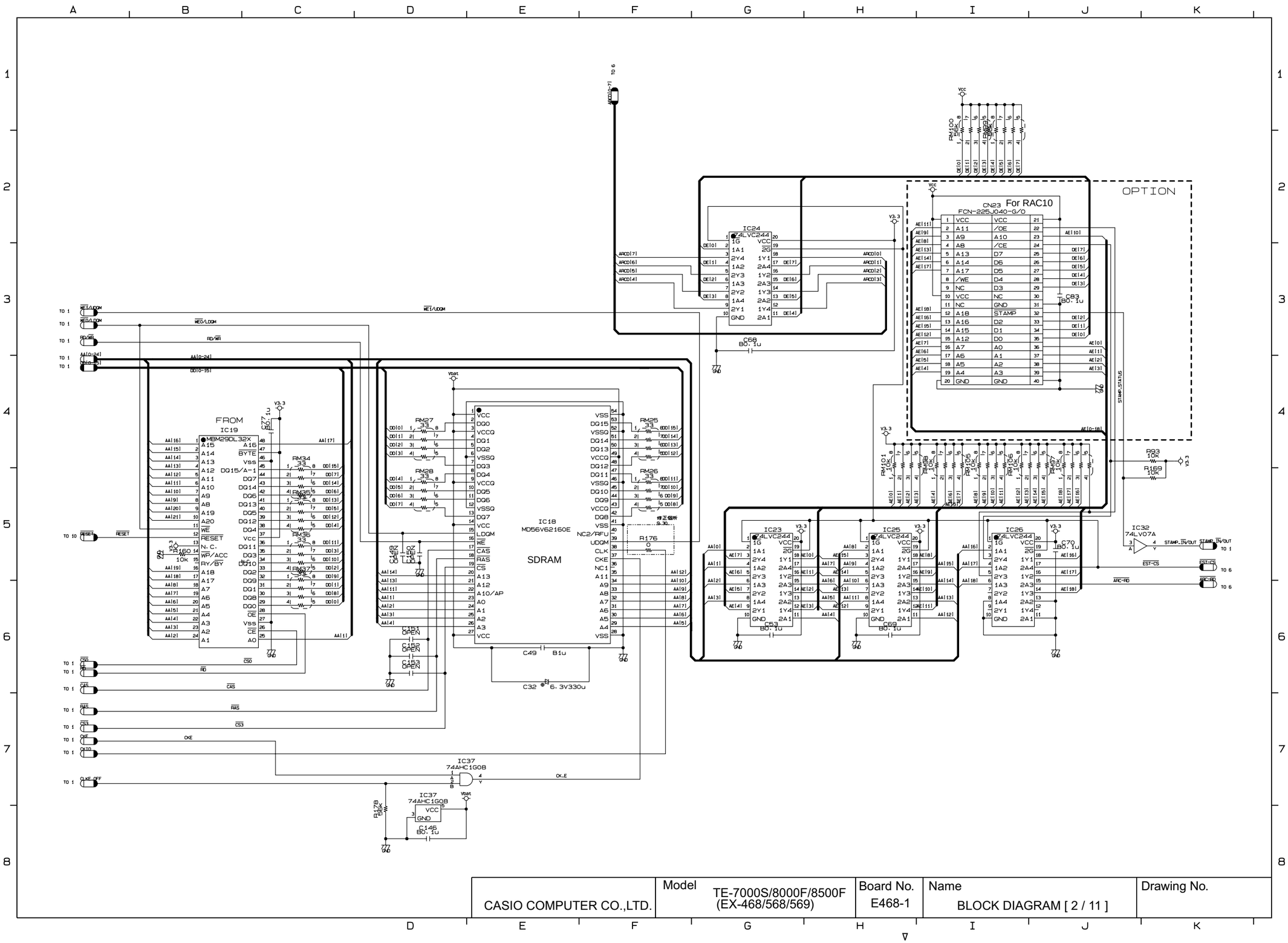
RECEIPT FEED	JOURNAL FEED	25	34	43	52	61	70	79	88	97	106	RECEIPT	MENU SHIFT	RC	PD	ESC/ SKIP
8	16	24	33	42	51	60	69	78	87	96	105	COVERS	TABLE TRANS	NO	↑	PAGE UP
7	15	23	32	41	50	59	68	77	86	95	104	%—	—	←	HOME	→
6	14	22	31	40	49	58	67	76	85	94	103	RF	OPEN	YES	↓	PAGE DOWN
5	13	21	30	39	48	57	66	75	84	93	102	C	X	VOID	CANCEL	#/NS
4	12	20	29	38	47	56	65	74	83	92	101	7	8	9	CR	CHK/ TEND
3	11	19	28	37	46	55	64	73	82	91	100	4	5	6	NEW/ OLD CHK	NB
2	10	18	27	36	45	54	63	72	81	90	99	1	2	3	SUB TOTAL	
1	9	17	26	35	44	53	62	71	80	89	98	0	00	.	CA/AMT TEND	

Model TE-7000S/8000F/8500F	**CASIO COMPUTER CO.,LTD.**
Name SYSTEM BLOCK	Drawing No.

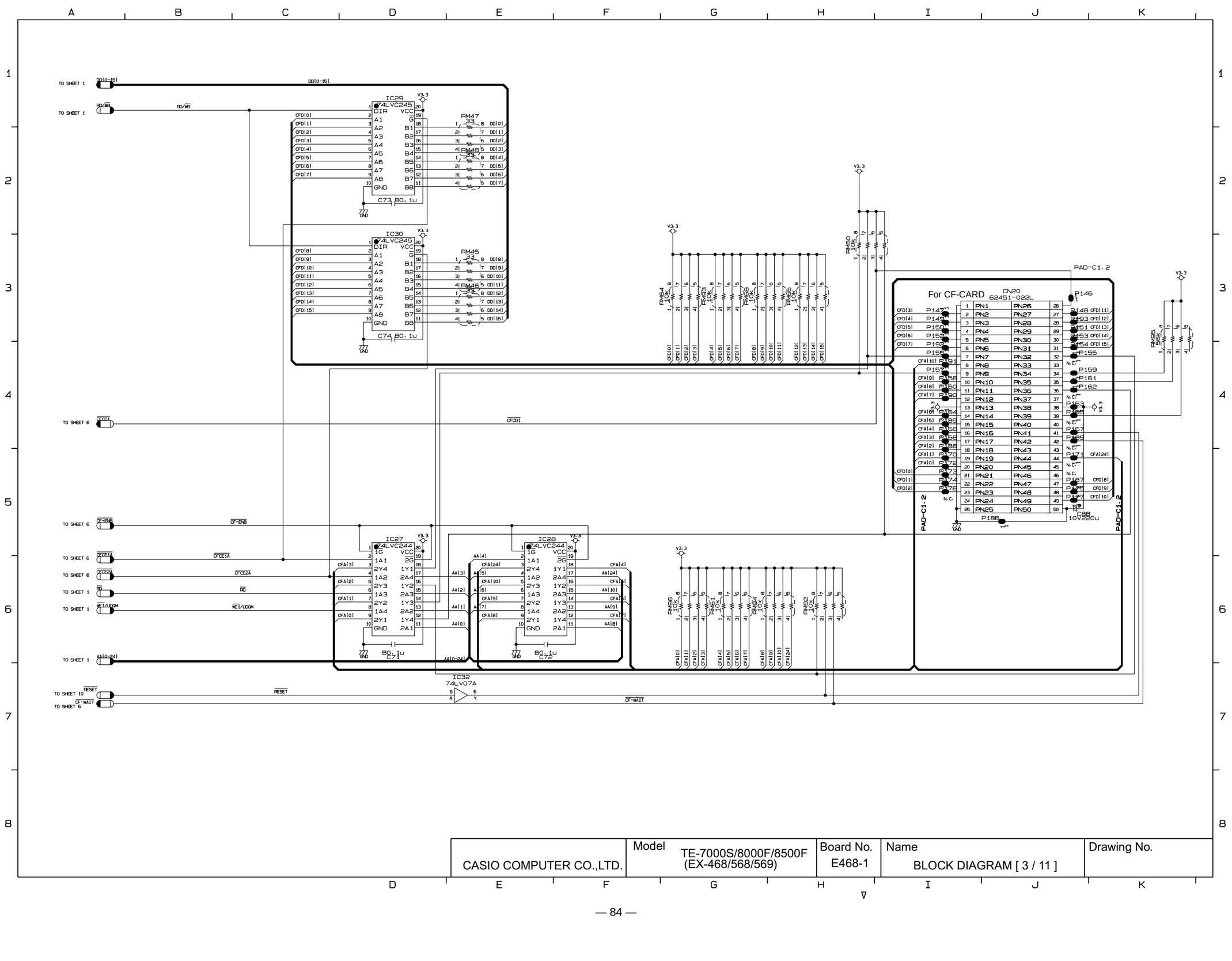
CN24
XG4C1431
PN1 TCK
PN2 TRST
PN3 TDO
PN4 ASEBRKAK
PN5 NC
PN6 TMS
PN7 TDI
PN8 RESET
PN9
PN10
PN11
PN12
PN13
PN14
OPTION
For software development

IC33
7706
CPU

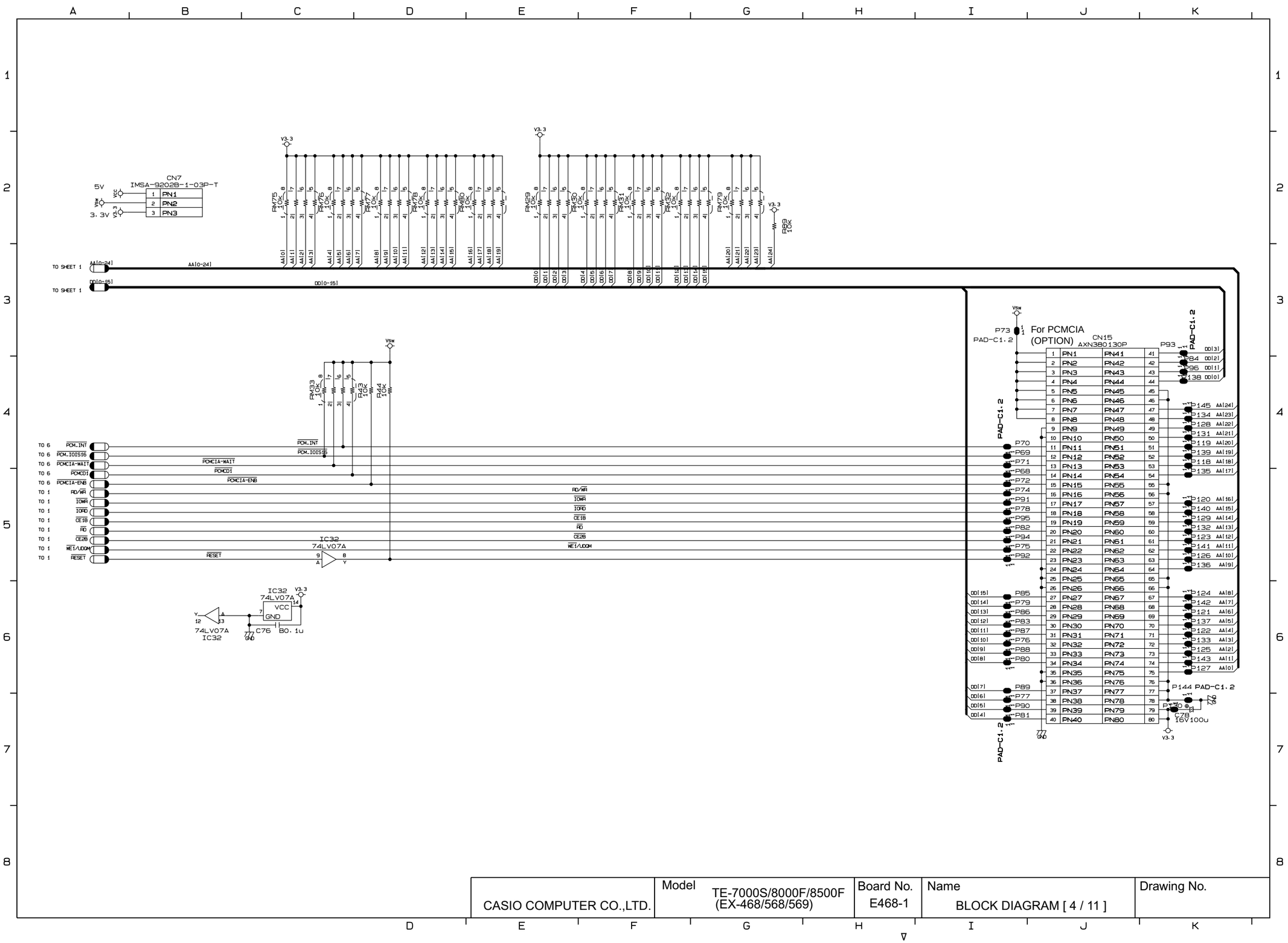
CASIO COMPUTER CO.,LTD.	Model TE-7000S/8000F/8500F (EX-468/568/569)	Board No. E468-1	Name BLOCK DIAGRAM [1 / 11]	Drawing No.



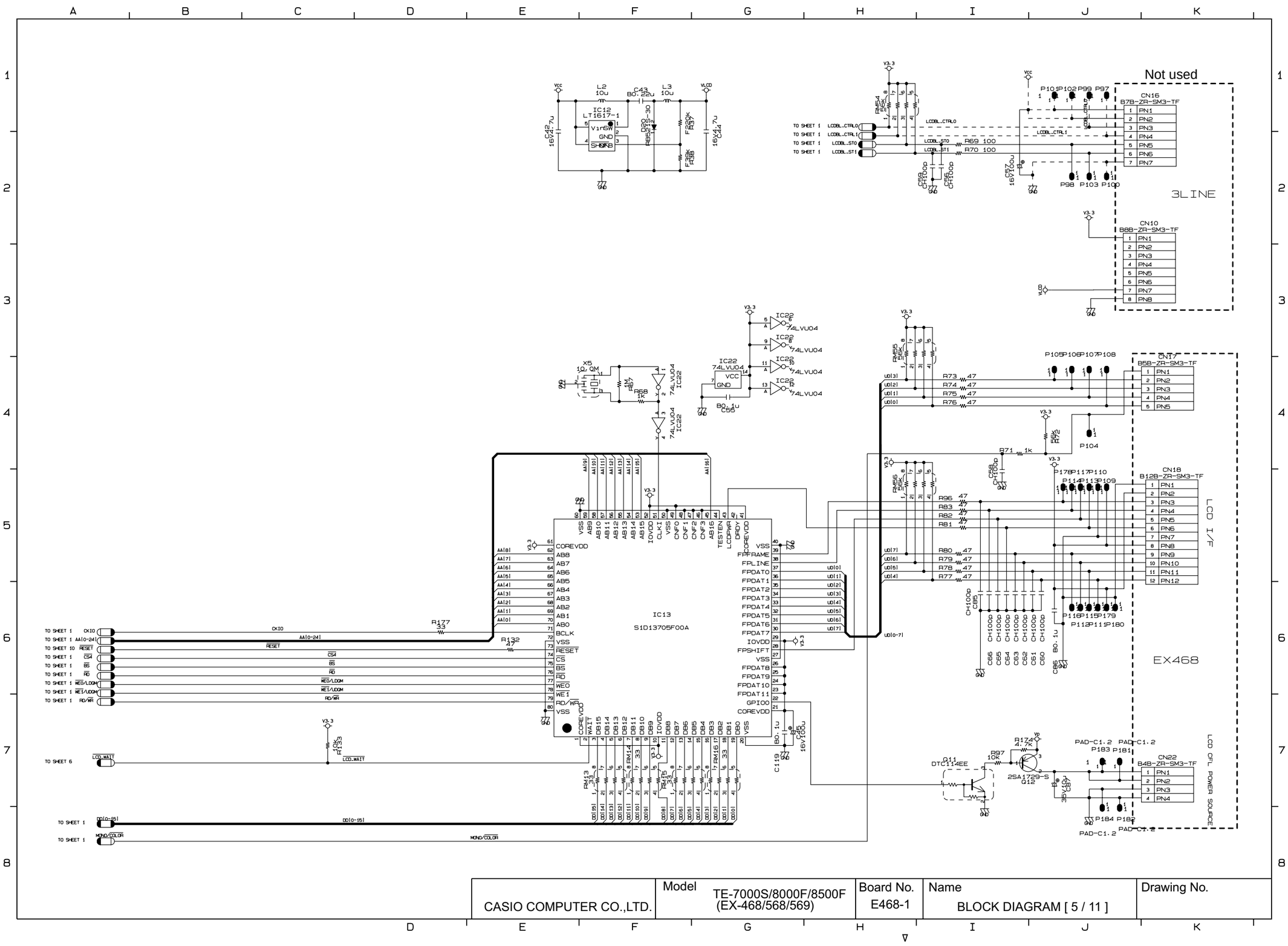
CASIO COMPUTER CO.,LTD.		Model	TE-7000S/8000F/8500F (EX-468/568/569)	Board No.	E468-1	Name	BLOCK DIAGRAM [2 / 11]	Drawing No.

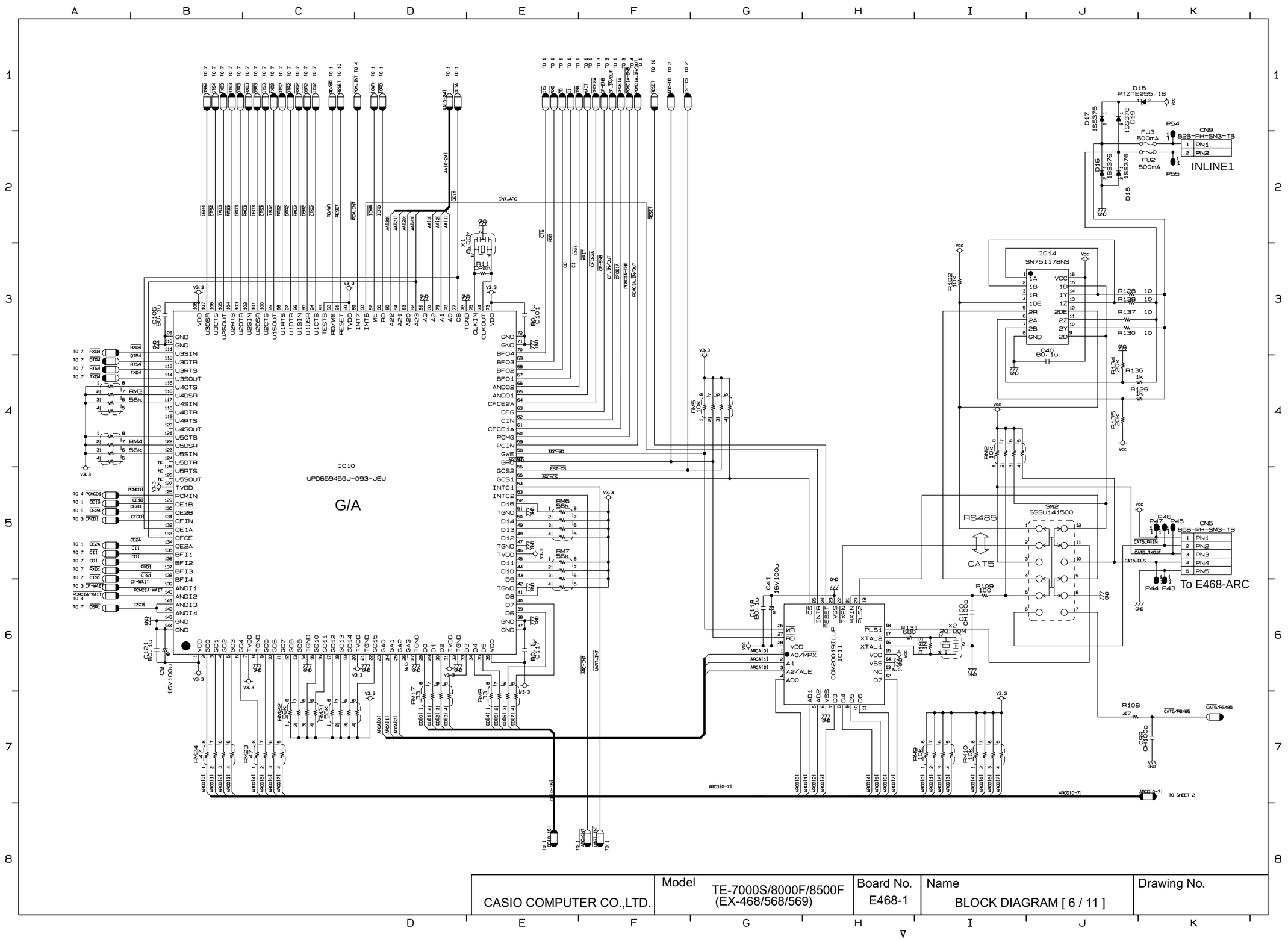


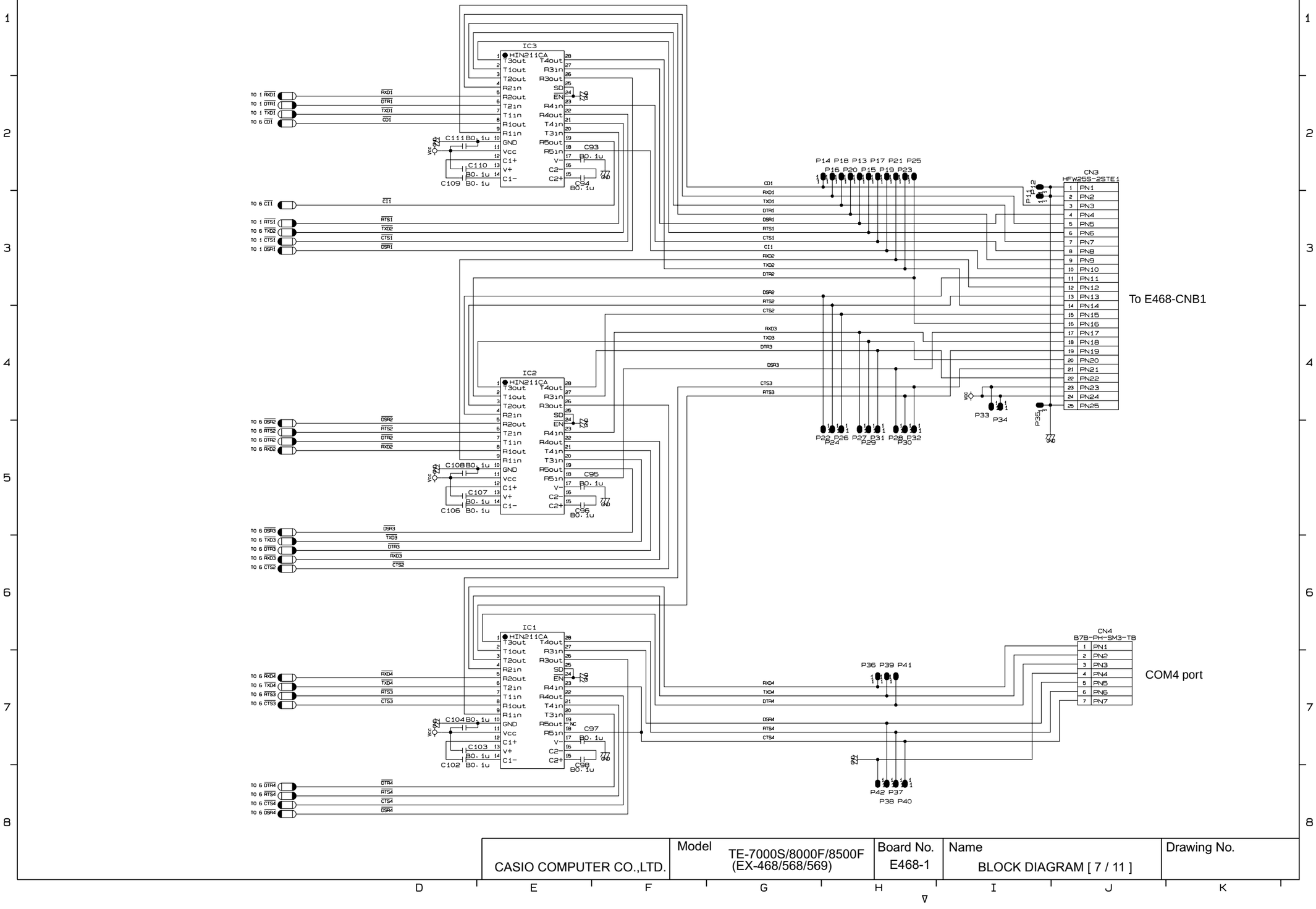
CASIO COMPUTER CO.,LTD.	Model TE-7000S/8000F/8500F (EX-468/568/569)	Board No. E468-1	Name BLOCK DIAGRAM [3 / 11]	Drawing No.	

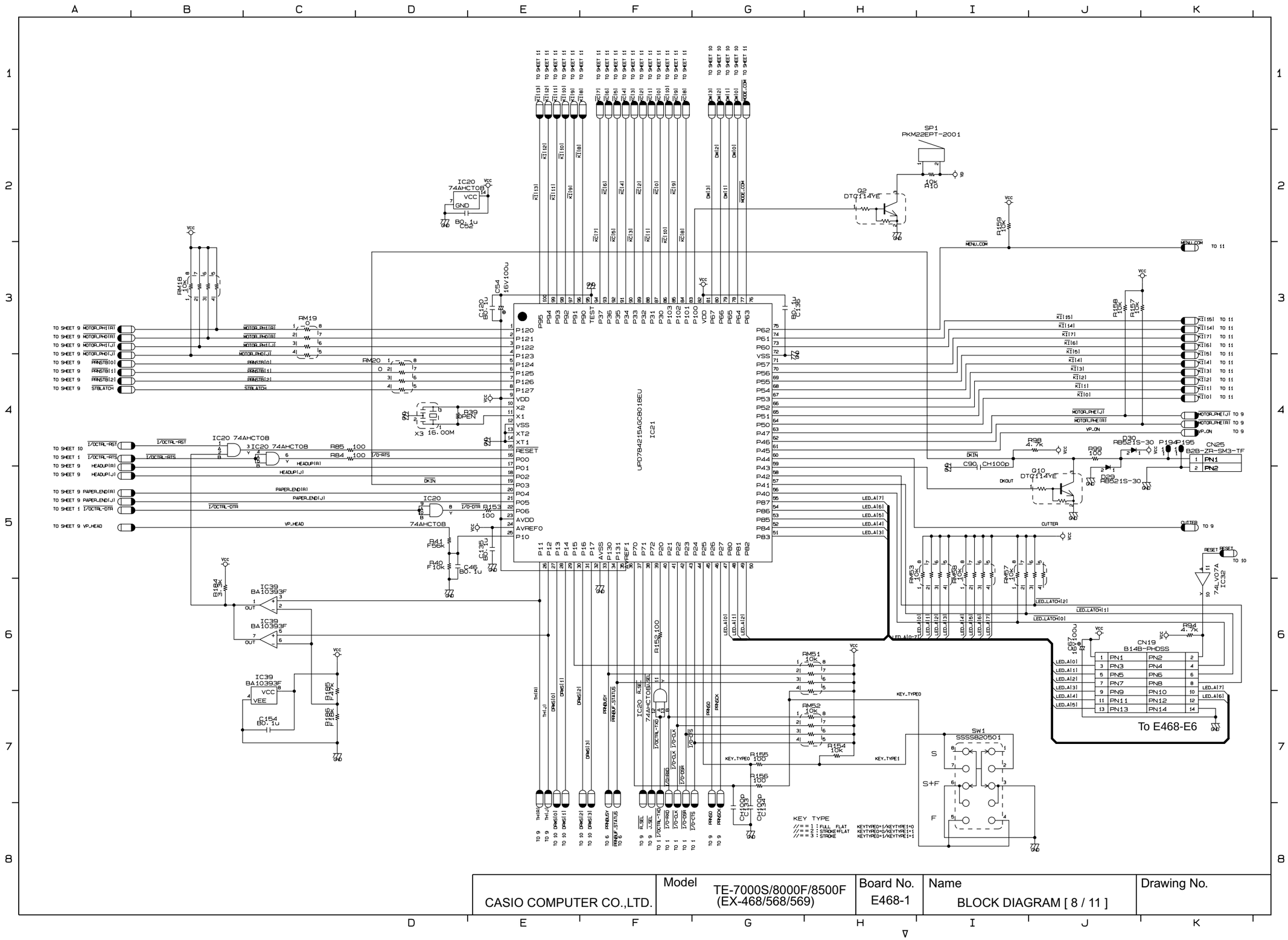


CASIO COMPUTER CO.,LTD.	Model TE-7000S/8000F/8500F (EX-468/568/569)	Board No. E468-1	Name BLOCK DIAGRAM [4 / 11]	Drawing No.

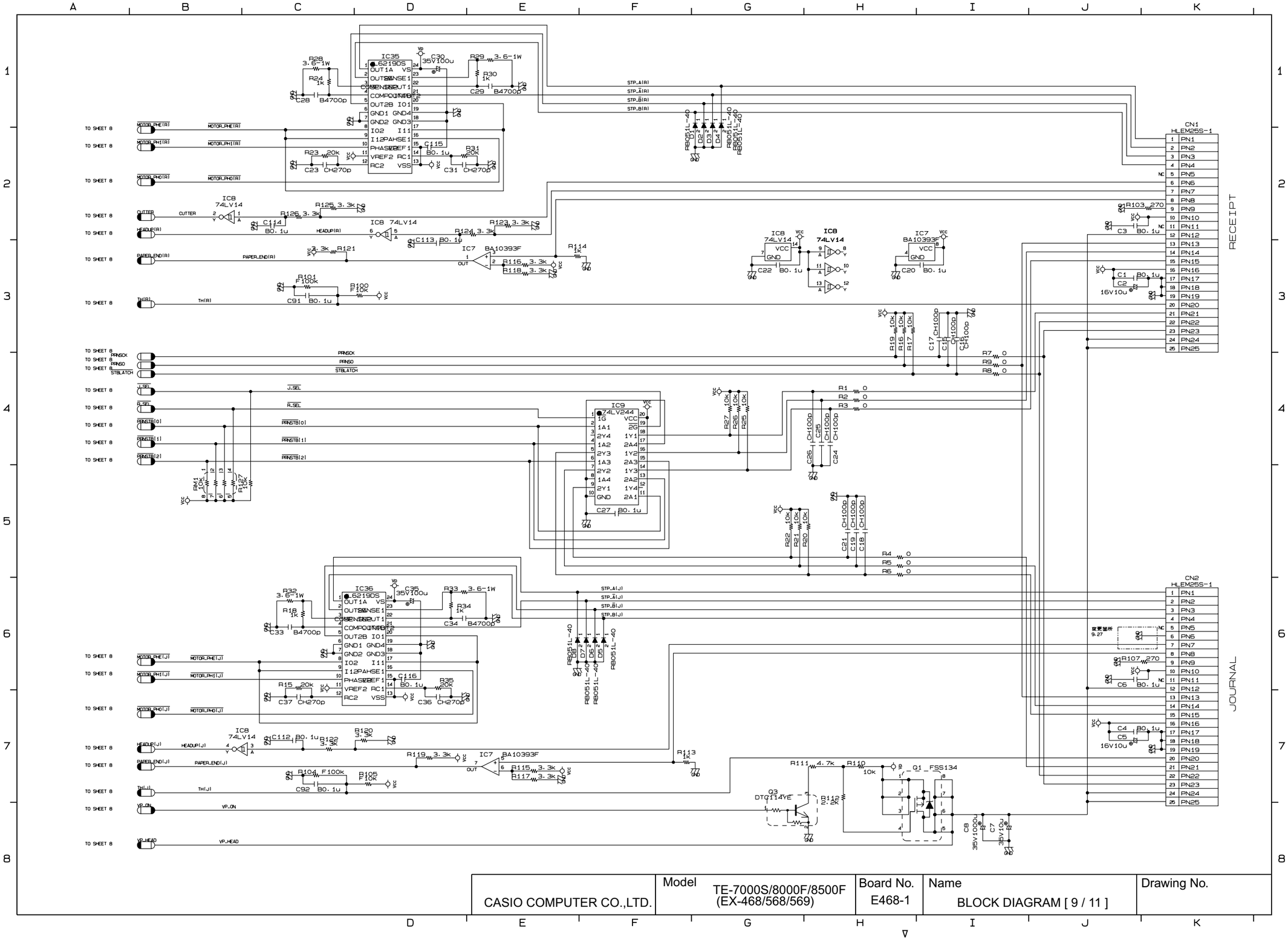

Not used
3LINE
LCD I/F
EX468
LCD CFL POWER SOURCE
IC13
S1D13705F00A
IC12
LT1617-1
74LVU04
CN16
B7B-ZR-SM3-TF
CN10
B8B-ZR-SM3-TF
CN17
B5B-ZR-SM3-TF
CN18
B12B-ZR-SM3-TF
CN22
B4B-ZR-SM3-TF
DTC114EE
2SA1729-S
CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-1
Name
BLOCK DIAGRAM [5 / 11]
Drawing No.


IC10
UPD65945GJ-093-JEU
G/A
IC14
SN751178NS
IC11
COM20019IL-JP
RS485
CAT5
SW2
SSSU141500
INLINE1
To E468-ARC
TO SHEET 2
CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-1
Name
BLOCK DIAGRAM [6 / 11]
Drawing No.

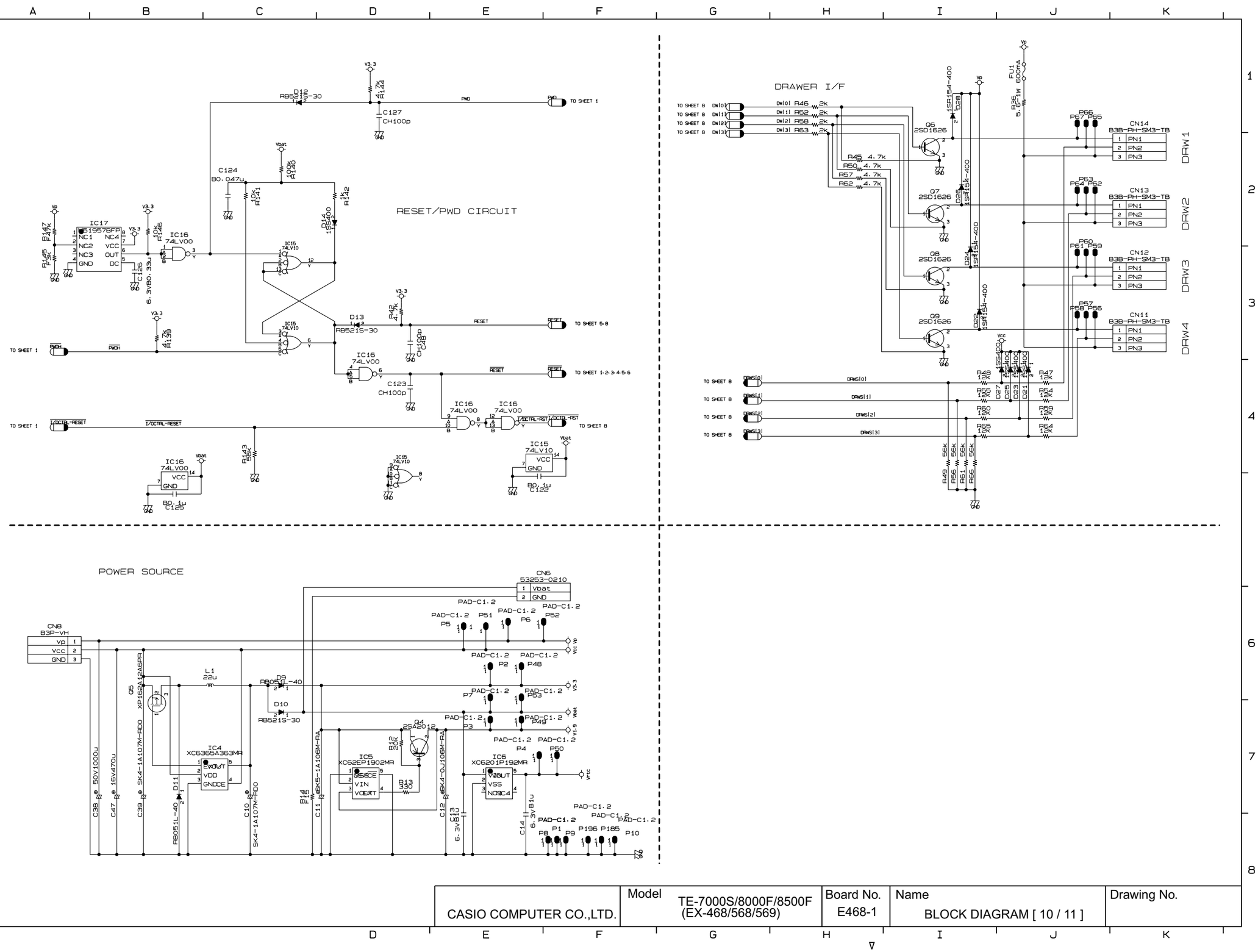

IC3
IC2
IC1
HIN211CA
CN3
HFW25S-2STE1
CN4
B7B-PH-SM3-TB
To E468-CNB1
COM4 port
CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-1
Name
BLOCK DIAGRAM [7 / 11]
Drawing No.

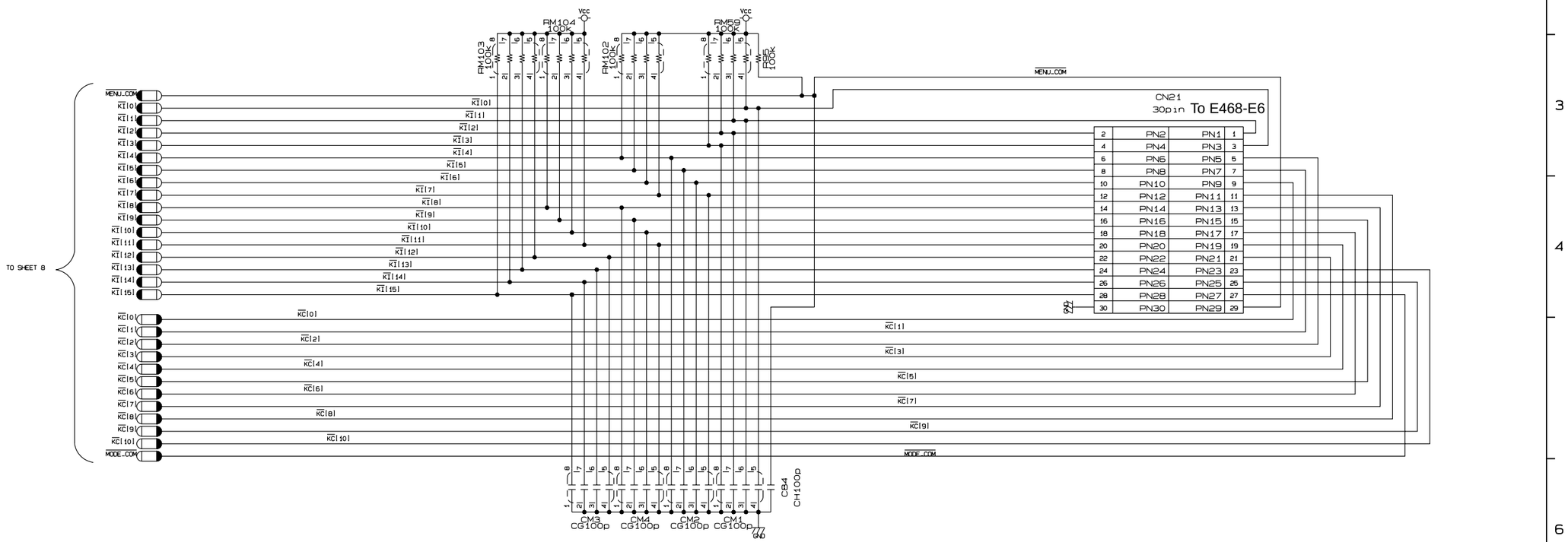


CASIO COMPUTER CO.,LTD.	Model: TE-7000S/8000F/8500F (EX-468/568/569)	Board No.: E468-1	Name: BLOCK DIAGRAM [8 / 11]	Drawing No.

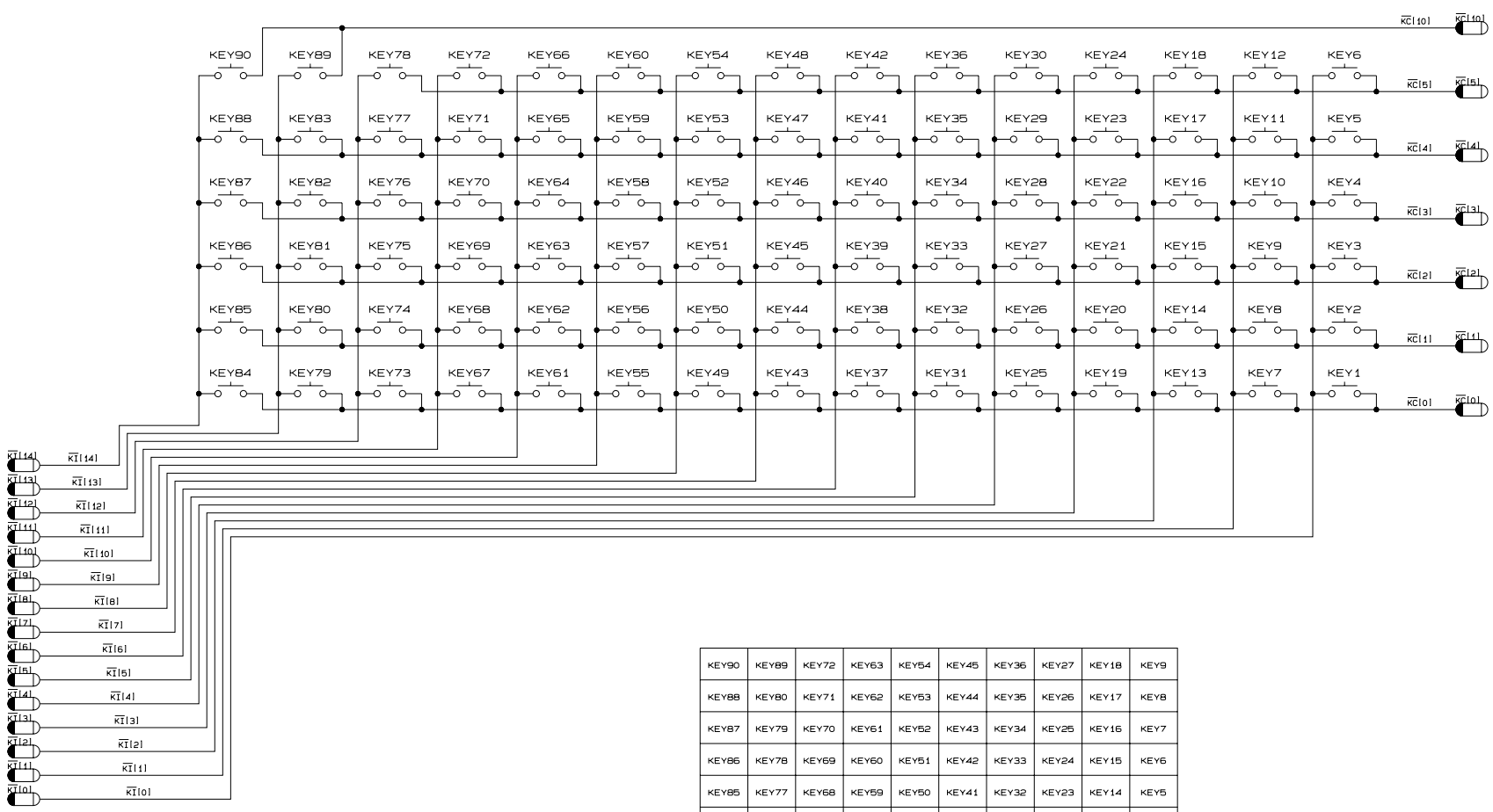


CASIO COMPUTER CO.,LTD.	Model TE-7000S/8000F/8500F (EX-468/568/569)	Board No. E468-1	Name BLOCK DIAGRAM [9 / 11]	Drawing No.	


RESET/PWD CIRCUIT
DRAWER I/F
POWER SOURCE
DRW1
DRW2
DRW3
DRW4
CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-1
Name
BLOCK DIAGRAM [10 / 11]
Drawing No.



CASIO COMPUTER CO.,LTD.	Model TE-7000S/8000F/8500F (EX-468/568/569)	Board No. E468-1	Name BLOCK DIAGRAM [11 / 11]	Drawing No.


KEY90 KEY89 KEY78 KEY72 KEY66 KEY60 KEY54 KEY48 KEY42 KEY36 KEY30 KEY24 KEY18 KEY12 KEY6
KEY88 KEY83 KEY77 KEY71 KEY65 KEY59 KEY53 KEY47 KEY41 KEY35 KEY29 KEY23 KEY17 KEY11 KEY5
KEY87 KEY82 KEY76 KEY70 KEY64 KEY58 KEY52 KEY46 KEY40 KEY34 KEY28 KEY22 KEY16 KEY10 KEY4
KEY86 KEY81 KEY75 KEY69 KEY63 KEY57 KEY51 KEY45 KEY39 KEY33 KEY27 KEY21 KEY15 KEY9 KEY3
KEY85 KEY80 KEY74 KEY68 KEY62 KEY56 KEY50 KEY44 KEY38 KEY32 KEY26 KEY20 KEY14 KEY8 KEY2
KEY84 KEY79 KEY73 KEY67 KEY61 KEY55 KEY49 KEY43 KEY37 KEY31 KEY25 KEY19 KEY13 KEY7 KEY1
KC[10] KC[5] KC[4] KC[3] KC[2] KC[1] KC[0]
KI[14] KI[13] KI[12] KI[11] KI[10] KI[9] KI[8] KI[7] KI[6] KI[5] KI[4] KI[3] KI[2] KI[1] KI[0]

KEY90	KEY89	KEY72	KEY63	KEY54	KEY45	KEY36	KEY27	KEY18	KEY9
KEY88	KEY80	KEY71	KEY62	KEY53	KEY44	KEY35	KEY26	KEY17	KEY8
KEY87	KEY79	KEY70	KEY61	KEY52	KEY43	KEY34	KEY25	KEY16	KEY7
KEY86	KEY78	KEY69	KEY60	KEY51	KEY42	KEY33	KEY24	KEY15	KEY6
KEY85	KEY77	KEY68	KEY59	KEY50	KEY41	KEY32	KEY23	KEY14	KEY5
KEY84	KEY76	KEY67	KEY58	KEY49	KEY40	KEY31	KEY22	KEY13	KEY4
KEY83	KEY75	KEY66	KEY57	KEY48	KEY39	KEY30	KEY21	KEY12	KEY3
KEY82	KEY74	KEY65	KEY56	KEY47	KEY38	KEY29	KEY20	KEY11	KEY2
KEY81	KEY73	KEY64	KEY55	KEY46	KEY37	KEY28	KEY19	KEY10	KEY1

CASIO COMPUTER CO.,LTD.	Model TE-7000S (EX-468)	Board No. E468-E4	Name KEY SHEET (STROKE)	Drawing No.

KEY153 KEY152 KEY135 KEY126 KEY117 KEY108 KEY99 KEY90 KEY81 KEY72 KEY63 KEY54 KEY45 KEY36 KEY27 KEY18 KEY9
KEY151 KEY143 KEY134 KEY125 KEY116 KEY107 KEY98 KEY89 KEY80 KEY71 KEY62 KEY53 KEY44 KEY35 KEY26 KEY17 KEY8
KEY150 KEY142 KEY133 KEY124 KEY115 KEY106 KEY97 KEY88 KEY79 KEY70 KEY61 KEY52 KEY43 KEY34 KEY25 KEY16 KEY7
KEY149 KEY141 KEY132 KEY123 KEY114 KEY105 KEY96 KEY87 KEY78 KEY69 KEY60 KEY51 KEY42 KEY33 KEY24 KEY15 KEY6
KEY148 KEY140 KEY131 KEY122 KEY113 KEY104 KEY95 KEY86 KEY77 KEY68 KEY59 KEY50 KEY41 KEY32 KEY23 KEY14 KEY5
KEY147 KEY139 KEY130 KEY121 KEY112 KEY103 KEY94 KEY85 KEY76 KEY67 KEY58 KEY49 KEY40 KEY31 KEY22 KEY13 KEY4
KEY146 KEY138 KEY129 KEY120 KEY111 KEY102 KEY93 KEY84 KEY75 KEY66 KEY57 KEY48 KEY39 KEY30 KEY21 KEY12 KEY3
KEY145 KEY137 KEY128 KEY119 KEY110 KEY101 KEY92 KEY83 KEY74 KEY65 KEY56 KEY47 KEY38 KEY29 KEY20 KEY11 KEY2
KEY144 KEY136 KEY127 KEY118 KEY109 KEY100 KEY91 KEY82 KEY73 KEY64 KEY55 KEY46 KEY37 KEY28 KEY19 KEY10 KEY1
KC10 KC9 KC8 KC7 KC6 KC5 KC4 KC3 KC2 KC1 KC0
KI15 KI14 KI13 KI12 KI11 KI10 KI9 KI8 KI7 KI6 KI5 KI4 KI3 KI2 KI1 KI0

KEY153	KEY152	KEY135	KEY126	KEY117
KEY151	KEY143	KEY134	KEY125	KEY116
KEY150	KEY142	KEY133	KEY124	KEY115
KEY149	KEY141	KEY132	KEY123	KEY114
KEY148	KEY140	KEY131	KEY122	KEY113
KEY147	KEY139	KEY130	KEY121	KEY112
KEY146	KEY138	KEY129	KEY120	KEY111
KEY145	KEY137	KEY128	KEY119	KEY110
KEY144	KEY136	KEY127	KEY118	KEY109

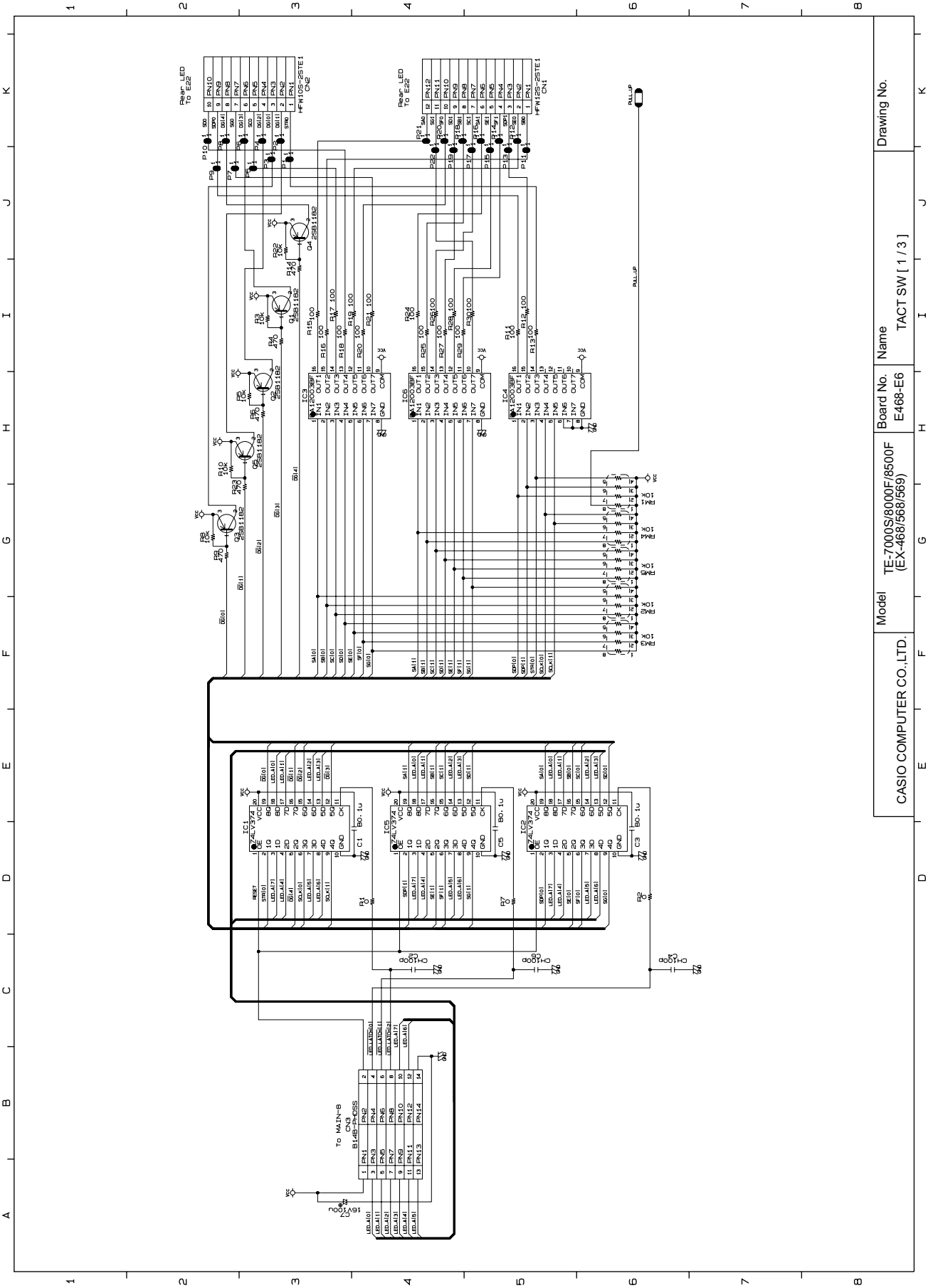
KEY108	KEY99	KEY90	KEY81	KEY72	KEY63	KEY54	KEY45	KEY36	KEY27	KEY18	KEY9
KEY107	KEY98	KEY89	KEY80	KEY71	KEY62	KEY53	KEY44	KEY35	KEY26	KEY17	KEY8
KEY106	KEY97	KEY88	KEY79	KEY70	KEY61	KEY52	KEY43	KEY34	KEY25	KEY16	KEY7
KEY105	KEY96	KEY87	KEY78	KEY69	KEY60	KEY51	KEY42	KEY33	KEY24	KEY15	KEY6
KEY104	KEY95	KEY86	KEY77	KEY68	KEY59	KEY50	KEY41	KEY32	KEY23	KEY14	KEY5
KEY103	KEY94	KEY85	KEY76	KEY67	KEY58	KEY49	KEY40	KEY31	KEY22	KEY13	KEY4
KEY102	KEY93	KEY84	KEY75	KEY66	KEY57	KEY48	KEY39	KEY30	KEY21	KEY12	KEY3
KEY101	KEY92	KEY83	KEY74	KEY65	KEY56	KEY47	KEY38	KEY29	KEY20	KEY11	KEY2
KEY100	KEY91	KEY82	KEY73	KEY64	KEY55	KEY46	KEY37	KEY28	KEY19	KEY10	KEY1

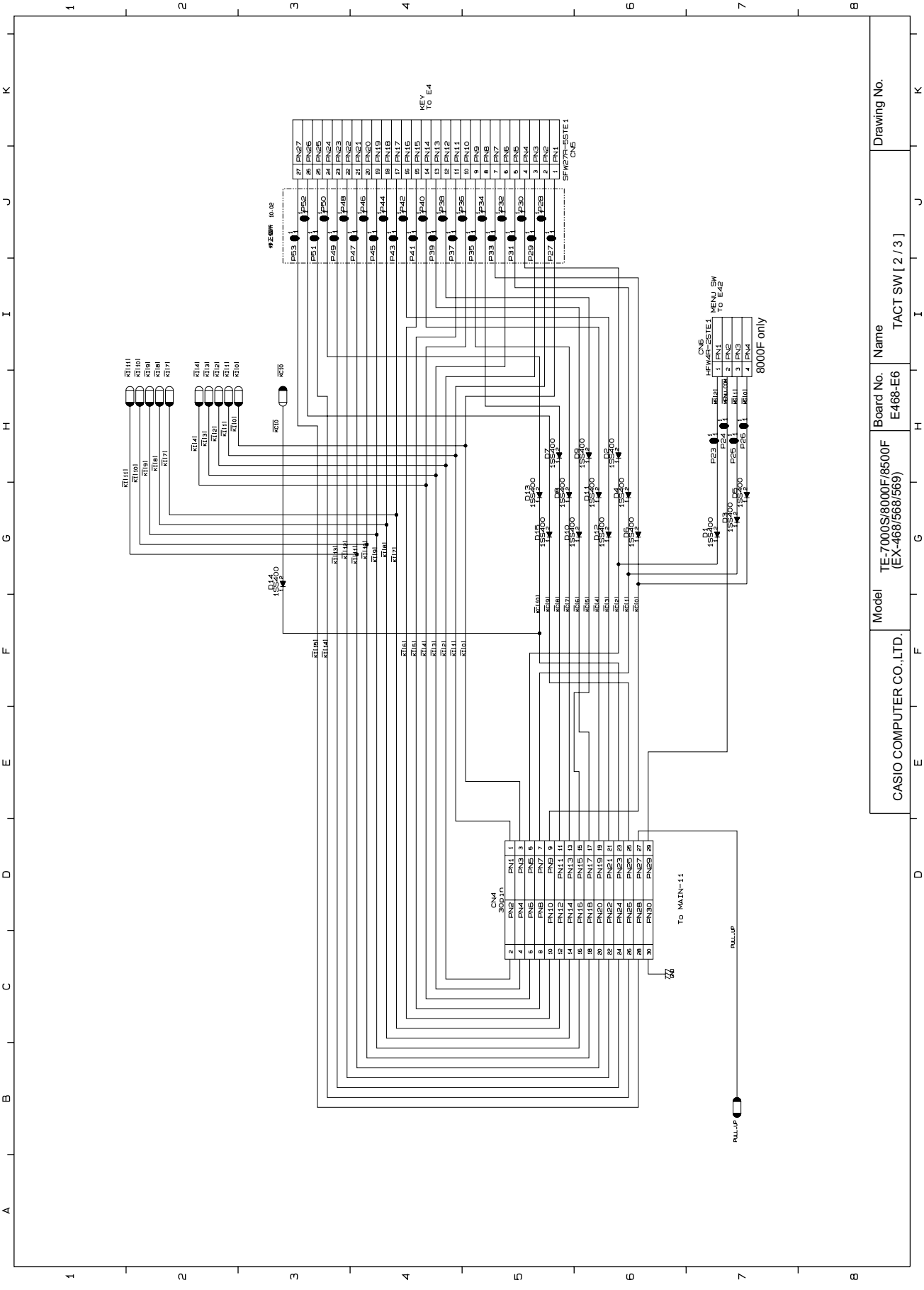
CASIO COMPUTER CO.,LTD.	Model: TE-8000F (EX-568)	Board No.: E568-E4	Name: KEY SHEET (HYBLID)	Drawing No.

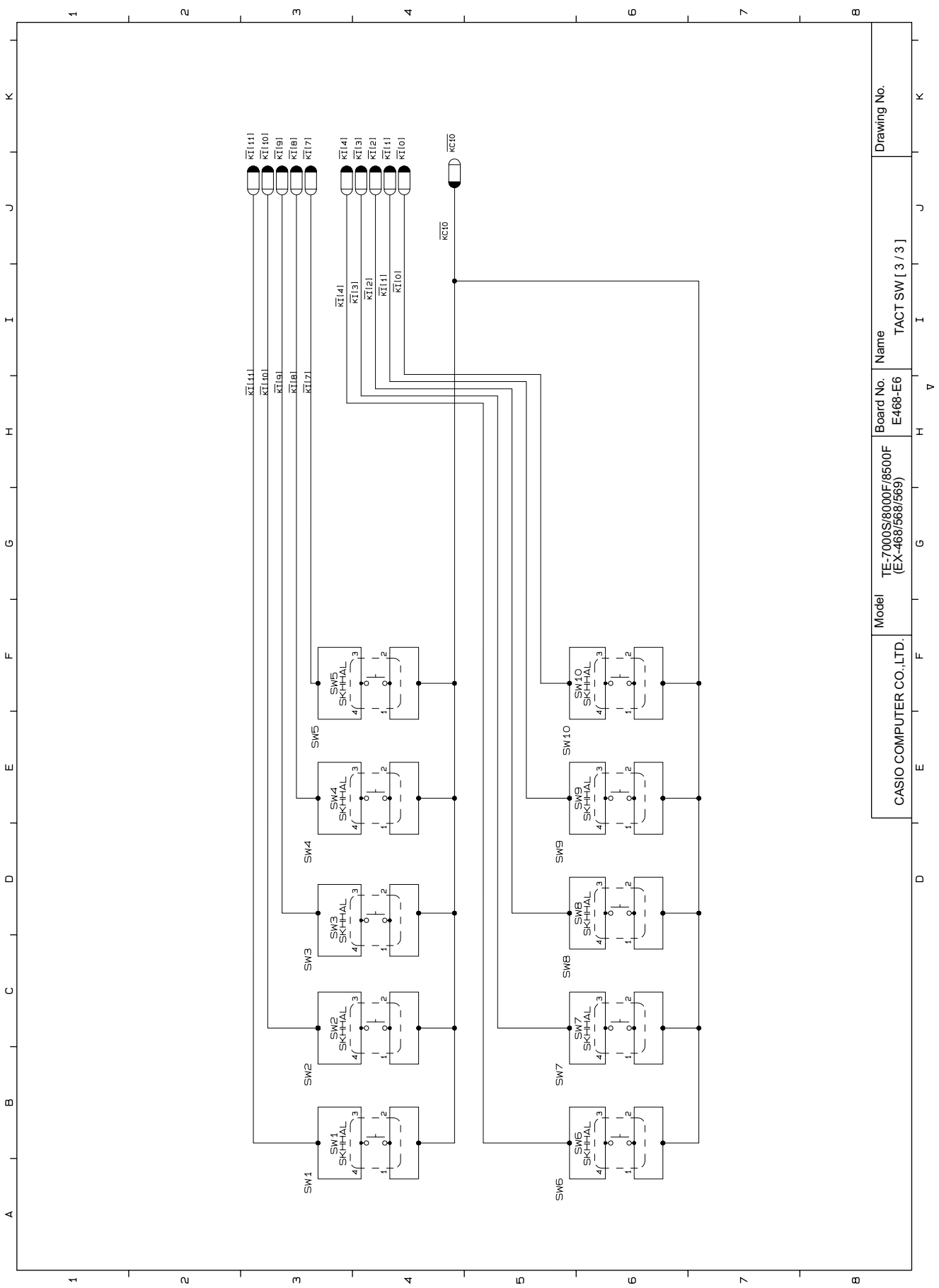
KEY153 KEY152 KEY135 KEY126 KEY117 KEY108 KEY99 KEY90 KEY81 KEY72 KEY63 KEY54 KEY45 KEY36 KEY27 KEY18 KEY9
KEY151 KEY143 KEY134 KEY125 KEY116 KEY107 KEY98 KEY89 KEY80 KEY71 KEY62 KEY53 KEY44 KEY35 KEY26 KEY17 KEY8
KEY150 KEY142 KEY133 KEY124 KEY115 KEY106 KEY97 KEY88 KEY79 KEY70 KEY61 KEY52 KEY43 KEY34 KEY25 KEY16 KEY7
KEY149 KEY141 KEY132 KEY123 KEY114 KEY105 KEY96 KEY87 KEY78 KEY69 KEY60 KEY51 KEY42 KEY33 KEY24 KEY15 KEY6
KEY148 KEY140 KEY131 KEY122 KEY113 KEY104 KEY95 KEY86 KEY77 KEY68 KEY59 KEY50 KEY41 KEY32 KEY23 KEY14 KEY5
KEY147 KEY139 KEY130 KEY121 KEY112 KEY103 KEY94 KEY85 KEY76 KEY67 KEY58 KEY49 KEY40 KEY31 KEY22 KEY13 KEY4
KEY146 KEY138 KEY129 KEY120 KEY111 KEY102 KEY93 KEY84 KEY75 KEY66 KEY57 KEY48 KEY39 KEY30 KEY21 KEY12 KEY3
KEY145 KEY137 KEY128 KEY119 KEY110 KEY101 KEY92 KEY83 KEY74 KEY65 KEY56 KEY47 KEY38 KEY29 KEY20 KEY2
KEY144 KEY136 KEY127 KEY118 KEY109 KEY100 KEY91 KEY82 KEY73 KEY64 KEY55 KEY46 KEY37 KEY28 KEY19 KEY1
KC10 KC9 KC8 KC7 KC6 KC5 KC4 KC3 KC2 KC1 KC0
KI15 KI14 KI13 KI12 KI11 KI10 KI9 KI8 KI7 KI6 KI5 KI4 KI3 KI2 KI1 KI0

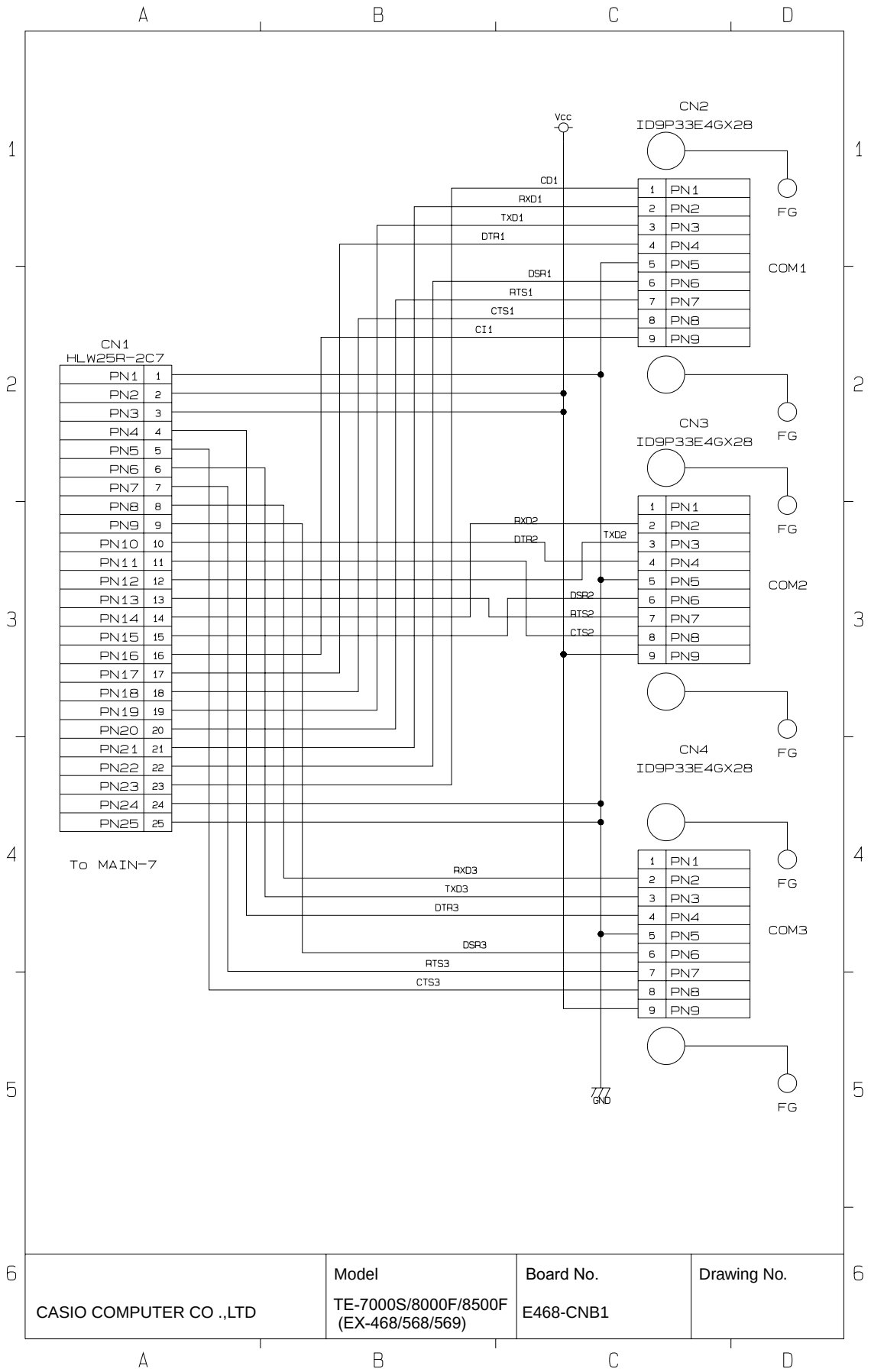
KEY153	KEY152	KEY135	KEY126	KEY117	KEY108	KEY99	KEY90	KEY81	KEY72	KEY63	KEY54	KEY45	KEY36	KEY27	KEY18	KEY9
KEY151	KEY143	KEY134	KEY125	KEY116	KEY107	KEY98	KEY89	KEY80	KEY71	KEY62	KEY53	KEY44	KEY35	KEY26	KEY17	KEY8
KEY150	KEY142	KEY133	KEY124	KEY115	KEY106	KEY97	KEY88	KEY79	KEY70	KEY61	KEY52	KEY43	KEY34	KEY25	KEY16	KEY7
KEY149	KEY141	KEY132	KEY123	KEY114	KEY105	KEY96	KEY87	KEY78	KEY69	KEY60	KEY51	KEY42	KEY33	KEY24	KEY15	KEY6
KEY148	KEY140	KEY131	KEY122	KEY113	KEY104	KEY95	KEY86	KEY77	KEY68	KEY59	KEY50	KEY41	KEY32	KEY23	KEY14	KEY5
KEY147	KEY139	KEY130	KEY121	KEY112	KEY103	KEY94	KEY85	KEY76	KEY67	KEY58	KEY49	KEY40	KEY31	KEY22	KEY13	KEY4
KEY146	KEY138	KEY129	KEY120	KEY111	KEY102	KEY93	KEY84	KEY75	KEY66	KEY57	KEY48	KEY39	KEY30	KEY21	KEY12	KEY3
KEY145	KEY137	KEY128	KEY119	KEY110	KEY101	KEY92	KEY83	KEY74	KEY65	KEY56	KEY47	KEY38	KEY29	KEY20	KEY11	KEY2
KEY144	KEY136	KEY127	KEY118	KEY109	KEY100	KEY91	KEY82	KEY73	KEY64	KEY55	KEY46	KEY37	KEY28	KEY19	KEY10	KEY1

CASIO COMPUTER CO.,LTD.	Model TE-8500F (EX-569)	Board No. E569-E4	Name KEY SHEET (FULL FLAT)	Drawing No.

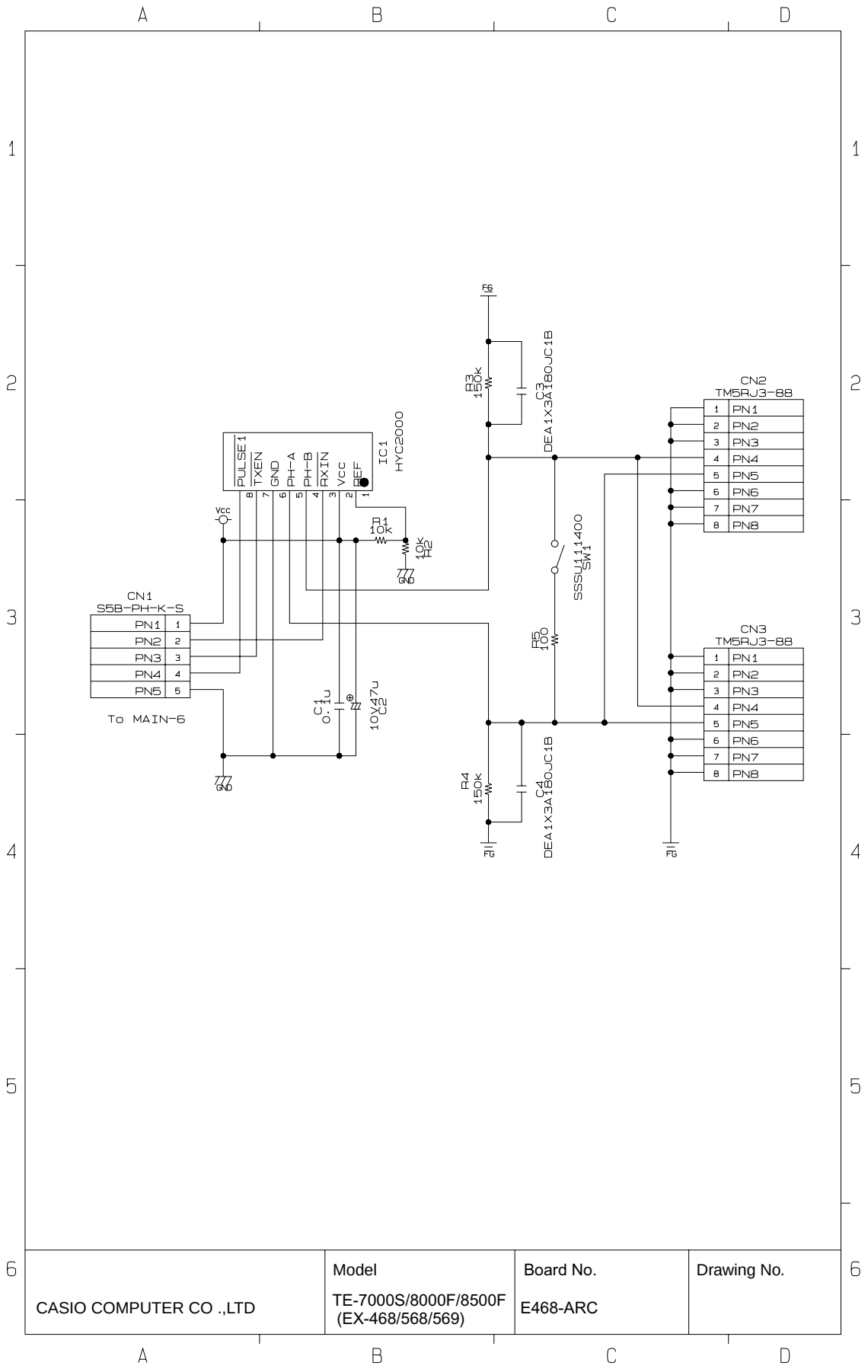

CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-E6
Name
TACT SW [1 / 3]
Drawing No.
To MAIN-B
Rear_LED
To E22
HFW10S-2STE1
HFW12S-2STE1
IC1
IC2
IC3
IC4
IC5
IC6
74LV374
XL2003BF
2SB1182
PULL-UP


CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-E6
Name
TACT SW [2 / 3]
Drawing No.
8000F only
KEY
TO E4
MENU SW
TO E42
To MAIN-11
PULL-UP
CN4
30pin
CN5
SPW27R-8STE1
CN6
HFW4R-2STE1

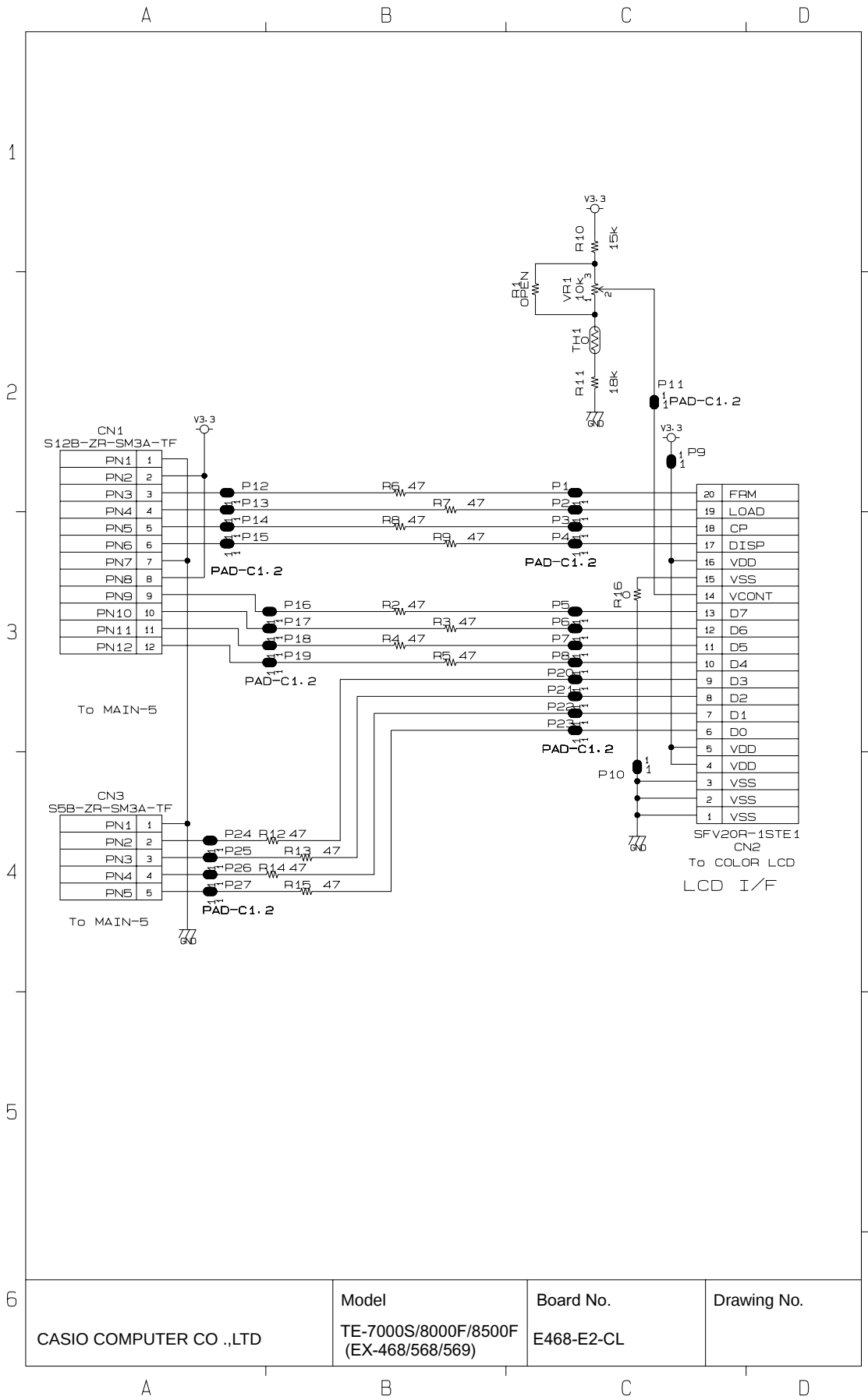

CASIO COMPUTER CO.,LTD.
Model
TE-7000S/8000F/8500F
(EX-468/568/569)
Board No.
E468-E6
Name
TACT SW [3 / 3]
Drawing No.
KI11
KI10
KI9
KI8
KI7
KI4
KI3
KI2
KI1
KI0
KC10
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW1 SKHHAL
SW2 SKHHAL
SW3 SKHHAL
SW4 SKHHAL
SW5 SKHHAL
SW6 SKHHAL
SW7 SKHHAL
SW8 SKHHAL
SW9 SKHHAL
SW10 SKHHAL



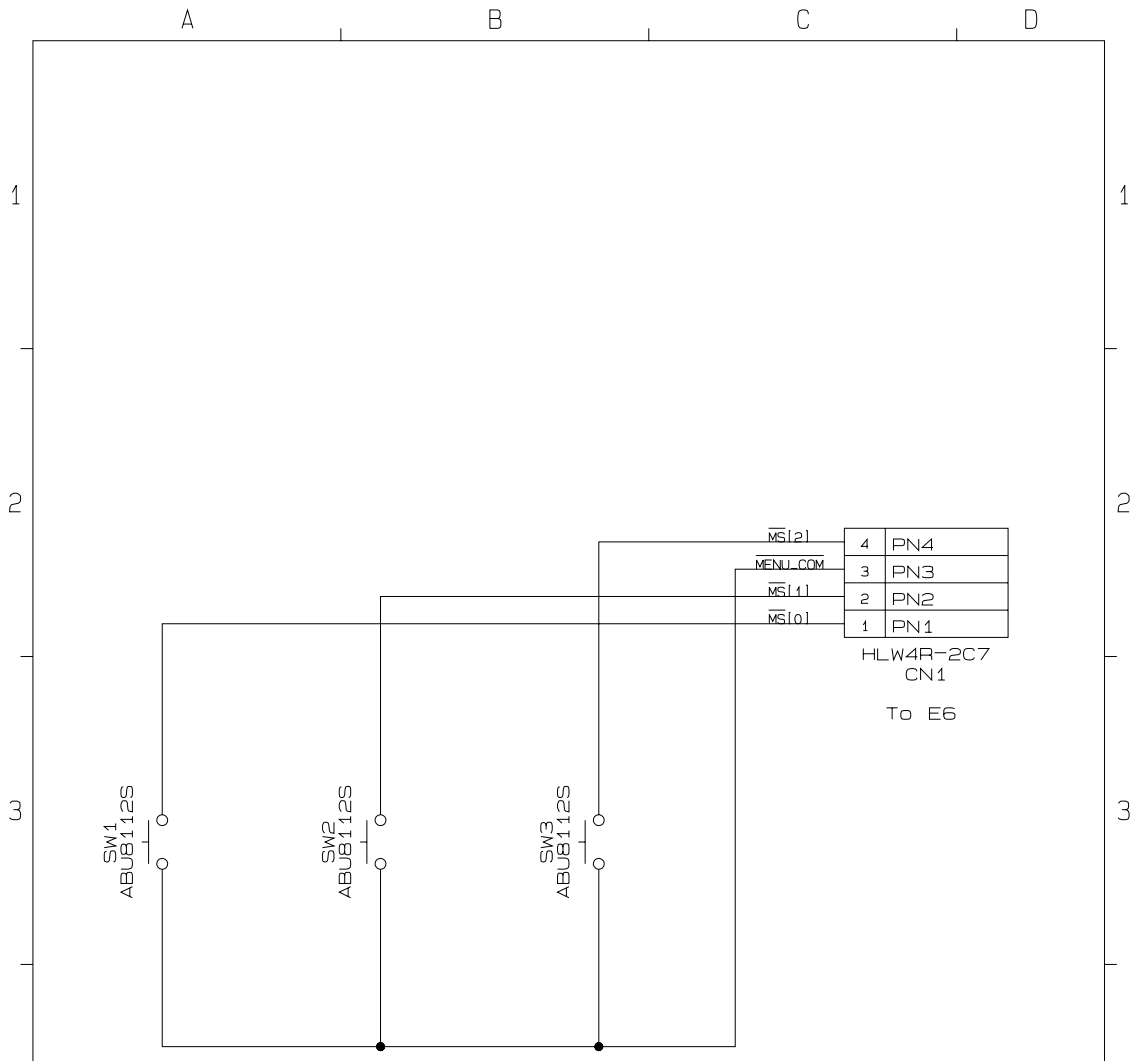
	Model	Board No.	Drawing No.
CASIO COMPUTER CO .,LTD	TE-7000S/8000F/8500F (EX-468/568/569)	E468-CNB1	



	Model	Board No.	Drawing No.
CASIO COMPUTER CO .,LTD	TE-7000S/8000F/8500F (EX-468/568/569)	E468-ARC	



CASIO COMPUTER CO .,LTD	Model TE-7000S/8000F/8500F (EX-468/568/569)	Board No. E468-E2-CL	Drawing No.



TE-8000F only

CASIO COMPUTER CO .,LTD	Model TE-8000F (EX-568)	Board No. E568-E42	Drawing No.

14. PARTS LIST

MODEL : TE-7000S/8000F/8500F (EX-468/568/569)

TE-7000S
Explode view 104
1. MAIN PCB BLOCK 108
2. LCD BLOCK 110
3. CUSTOMER DISPLAY BLOCK 111
4. BUTTON BLOCK 111
5. POWER SUPPLY BLOCK 112
6. UPPER CASE BLOCK 112
7. LOWER CASE BLOCK 113
8. PRINTER BLOCK 113
9. CLERK SWITCH CIRCUIT 114
10. CONNECTOR BOARD 114
11. ARCNET IN-LINE BOARD 114
12. OTHERS 114

TE-8000F
Explode view 115
1. MAIN PCB BLOCK 119
2. LCD BLOCK 121
3. CUSTOMER DISPLAY BLOCK 122
4. BUTTON BLOCK 122
5. POWER SUPPLY BLOCK 123
6. UPPER CASE BLOCK 123
7. LOWER CASE BLOCK 123
8. PRINTER BLOCK 124
9. CLERK SWITCH CIRCUIT 124
10. CONNECTOR BOARD 125
11. ARCNET IN-LINE BOARD 125
12. OTHERS 125

TE-8500F
Explode view 126
1. MAIN PCB BLOCK 130
2. LCD BLOCK 132
3. CUSTOMER DISPLAY BLOCK 133
4. BUTTON BLOCK 133
5. POWER SUPPLY BLOCK 133
6. UPPER CASE BLOCK 133
7. LOWER CASE BLOCK 134
8. PRINTER BLOCK 134
9. CLERK SWITCH CIRCUIT 134
10. CONNECTOR BOARD 135
11. ARCNET IN-LINE BOARD 135
12. OTHERS 135

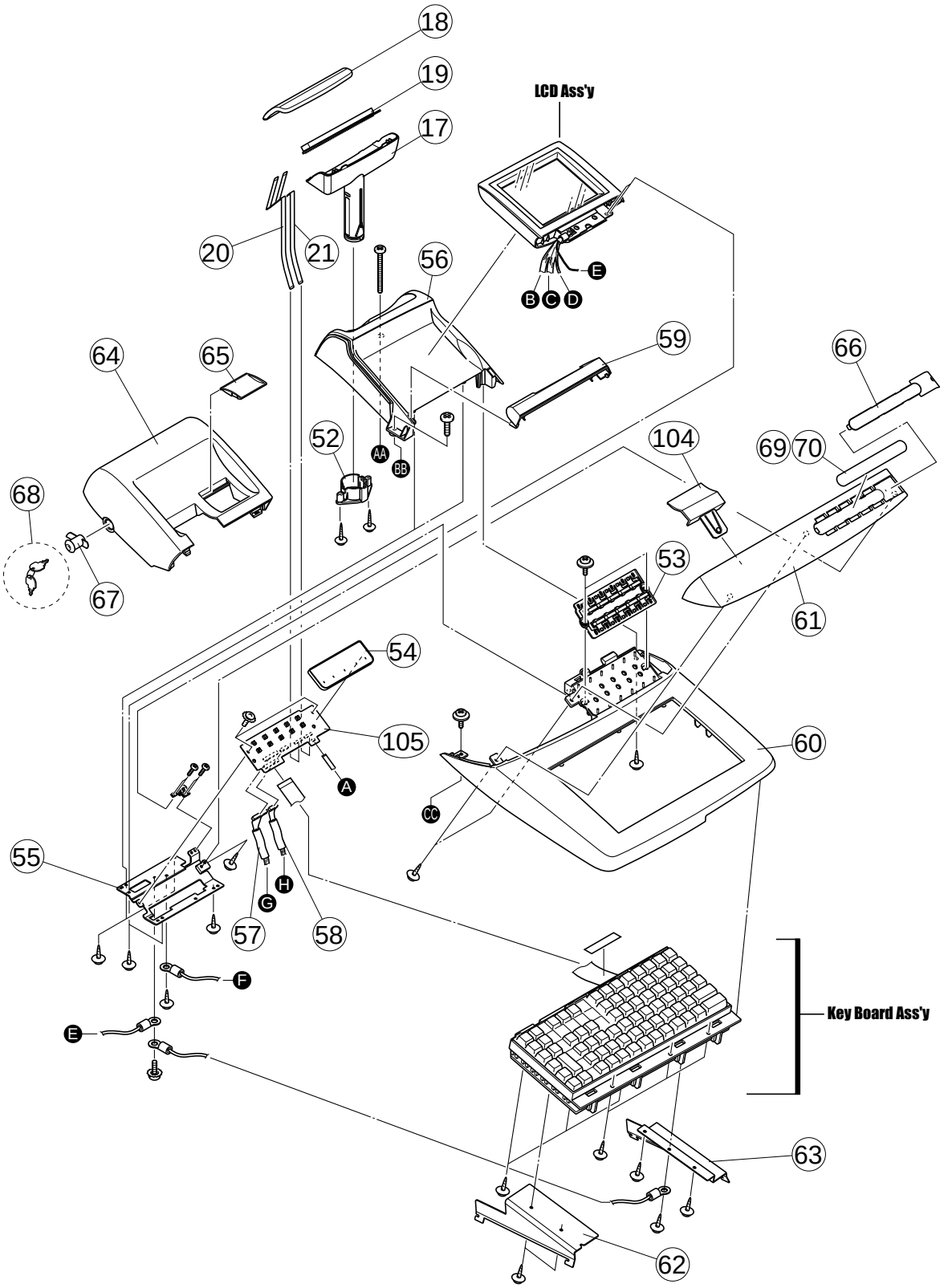
13. DRAWER (DL-2424) 136
14. DRAWER (DL-2524) 138
15. DRAWER (DL-2783) 140
16. DRAWER (DL-2784) 142
17. DRAWER (DL-3616) 144
18. DRAWER (DL-3617) 146

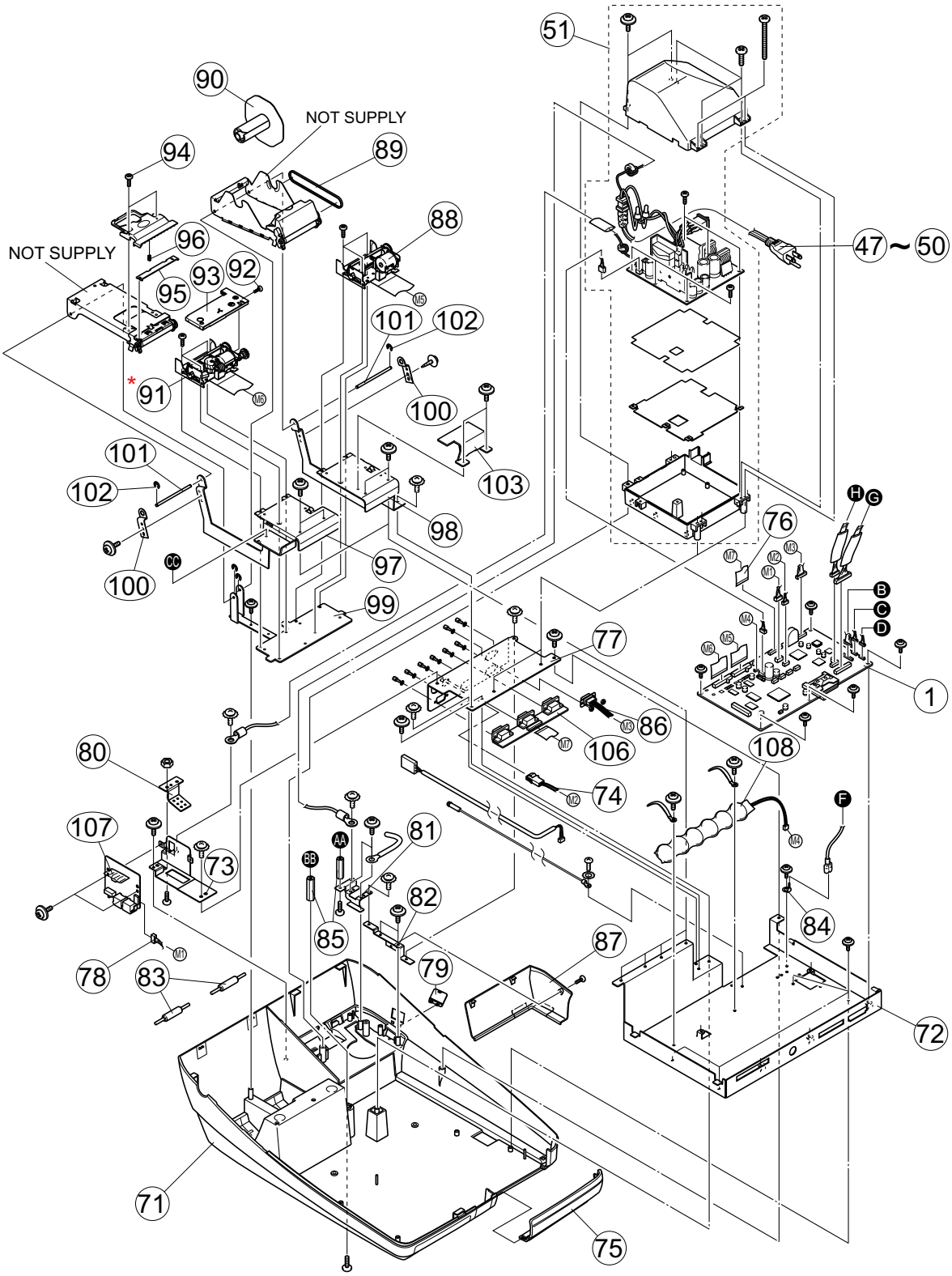
NOTES :

1. Price and specifications are subject to change withput prior notice.
2. As for spare parts order and supply, refer to the “GUIDEBOOK for Spare Parts Supply”, published separately.
3. The numbers in item column corespond to the same numbers in drawing.
4. CASIO does not supply the spare parts without parts code.
5. Remarks

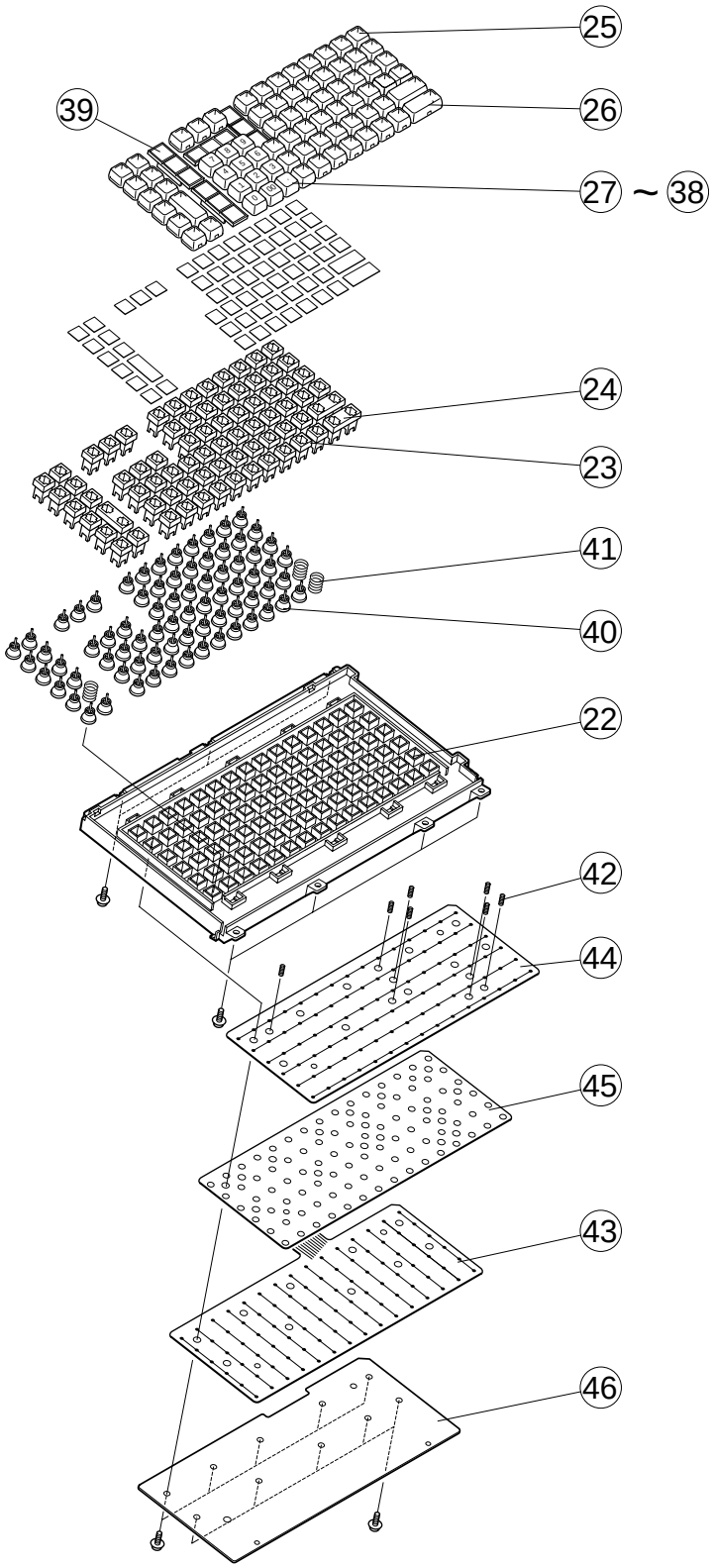
   Q'ty : Quantity used per unit
   RANK: A = Essential
   B = Stock recommended
   C = Less recommended
   X = No stock recommended

TE-7000S


18
19
17
LCD Ass'y
20
21
56
E
B C D
59
66
64
65
52
AA
BB
104
69
70
68
67
53
61
54
105
60
A
CC
55
G
H
57
58
F
E
Key Board Ass'y
63
62



* 91 There are 2 versions of the receipt printer. Please refer to the service bulletin ECR-543 for the details.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27 ~ 38
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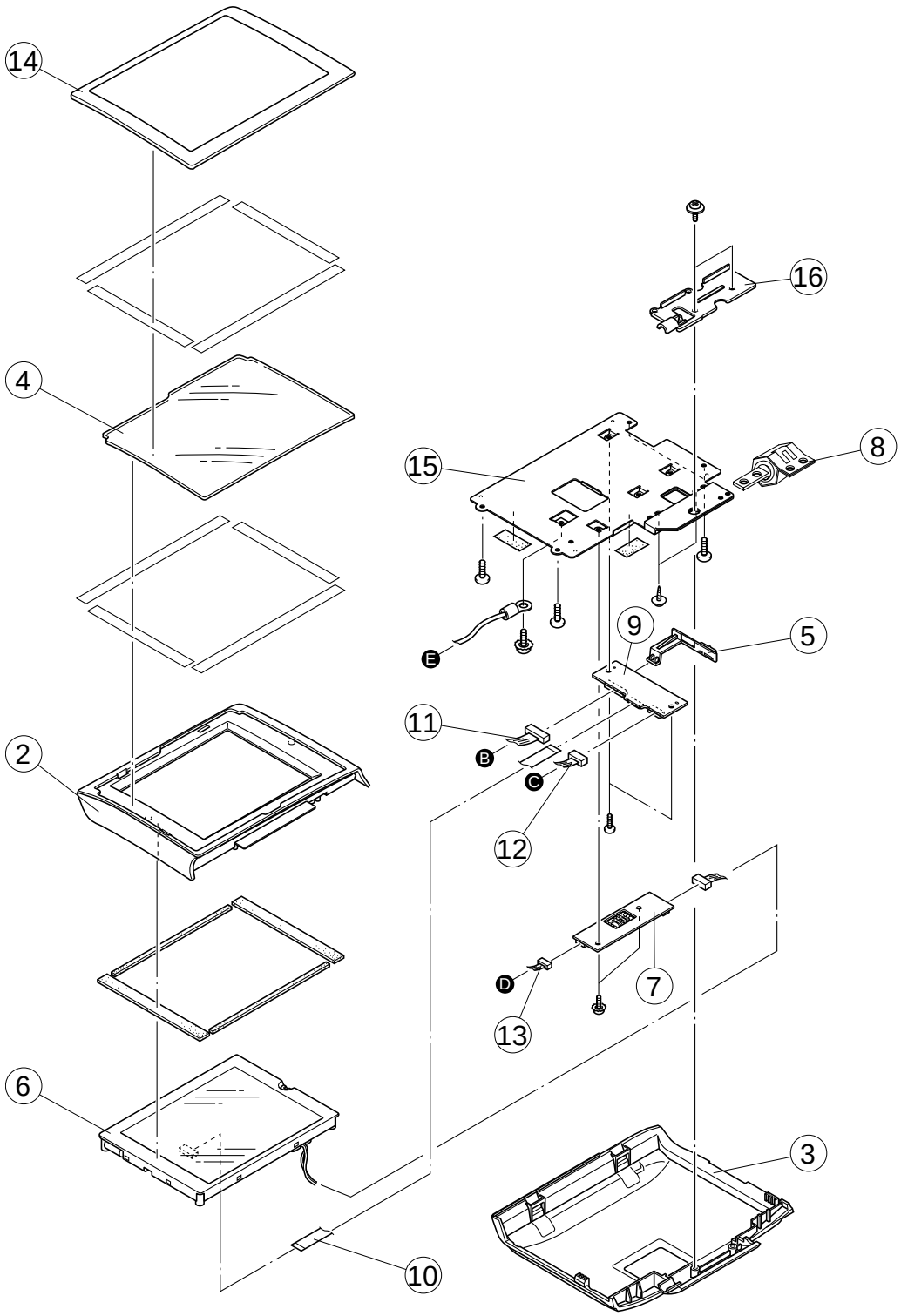
14
16
4
15
8
E
9
5
11
B
C
12
2
7
D
13
6
3
10

TE-7000S

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type				
									Europe	UK	USA		
	1. MAIN PCB BLOCK												
N	**1**	10104430	PCB ASSY/E468-1	RJE500408*1	1	1	1	1	1	1	1	EJ	A
N	IC33	10100136	LSI	HD6417706F133	1	1	1	1	1	1	1	CK	A
N	IC21	10111217	LSI	UPD784215AGC8028EU	1	1	1	1	1	1	1	BN	A
	IC10	10073986	LSI	UPD65945GJ-P16-JEU	1	1	1	1	1	1	1	BU	A
N	IC19	10103458	LSI	MBM29DL324BE90TNAA	1	1	1	1	1	1	1	BW	A
N	IC18	10100310	LSI	MD56V62160E-10TAB0	1	1	1	1	1	1	1	BU	A
N	IC13	10100311	LSI	S1D13705F00A100	1	1	1	1	1	1	1	CF	A
	IC11	10006024	LSI	COM20019ILJP	1	1	1	1	1	1	1	CF	A
	IC35,36	21120788	IC	L6219DS	2	2	2	2	2	2	2	BC	A
N	IC20	10105416	IC/CMOS	SN74AHCT08PWR	1	1	1	1	1	1	1	AC	A
	IC16	10003984	IC/CMOS	SN74LV00APWR	1	1	1	1	1	1	1	AB	A
N	IC32	10105417	IC/CMOS	SN74LV07APWR	1	1	1	1	1	1	1	AA	A
	IC31,34	10005659	IC/CMOS	SN74LV08APWR	2	2	2	2	2	2	2	AB	A
	IC15	10007179	IC/CMOS	SN74LV10APWR	1	1	1	1	1	1	1	AC	A
	IC8	21056580	IC/CMOS	SN74LV14APWR	1	1	1	1	1	1	1	AC	A
	IC9	10005721	IC/CMOS	SN74LV244APWR	1	1	1	1	1	1	1	AF	A
N	IC27,28	10105407	IC/CMOS	SN74LVC244APWR	2	2	2	2	2	2	2	AA	A
N	IC29,30	10105408	IC/CMOS	SN74LVC245APWR	2	2	2	2	2	2	2	AA	A
N	IC22	10105409	IC/CMOS	SN74LVU04APWR	1	1	1	1	1	1	1	AD	A
	IC6	10074001	IC/MOS	XC6201P192MR	1	1	1	1	1	1	1	AC	A
	IC5	10074002	IC/MOS	XC62EP1902MR	1	1	1	1	1	1	1	AC	A
	IC4	10074003	IC/MOS	XC6365A363MR	1	1	1	1	1	1	1	AG	A
	IC17	21120763	IC/RESET	M51957BFP-T1	1	1	1	1	1	1	1	AJ	A
	IC14	10074005	IC	SN751178NSR	1	1	1	1	1	1	1	BG	A
	IC1-3	21120820	IC	HIN211CA-T	3	3	3	3	3	3	3	AT	A
	IC7,39	21120821	IC	BA10393F-E2	2	2	2	2	2	2	2	AB	A
	R1-9,51,53,86,87, 163,-166,168,170, 176		RESISTOR/CHIP	RC1608-000-T	20	20	20	20	20	20	20		X
	R128,130,137,138,		RESISTOR/CHIP	RC1608-100-J-T	4	4	4	4	4	4	4		X
	R84,85,99,109, 152,153,155,156		RESISTOR/CHIP	RC1608-101-J-T	8	8	8	8	8	8	8		X
	R18,24,30,34,68, 71,113,114,129, 136,142,162		RESISTOR/CHIP	RC1608-102-J-T	12	12	12	12	12	12	12		X
	R10,16,17,19-22, 25-27,43,44,89,92, 97,110,127,133, 141,146,150,151, 154,157-160,169, 182		RESISTOR/CHIP	RC1608-103-J-T	29	29	29	29	29	29	29		X
	R95,140		RESISTOR/CHIP	RC1608-104-J-T	2	2	2	2	2	2	2		X
	R67,183		RESISTOR/CHIP	RC1608-105-J-T	2	2	2	2	2	2	2		X
	R47,48,54,55,59, 60,64,65		RESISTOR/CHIP	RC1608-123-J-T	8	8	8	8	8	8	8		X
	R46,52,58,63		RESISTOR/CHIP	RC1608-202-J-T	4	4	4	4	4	4	4		X
	R12,15,23,31,35, 134,135		RESISTOR/CHIP	RC1608-203-J-T	7	7	7	7	7	7	7		X
	R112		RESISTOR/CHIP	RC1608-222-J-T	1	1	1	1	1	1	1		X
	R13		RESISTOR/CHIP	RC1608-331-J-T	1	1	1	1	1	1	1		X
	R115-126,184		RESISTOR/CHIP	RC1608-332-J-T	13	13	13	13	13	13	13		X
	R73-83,90,91,96, 108,132		RESISTOR/CHIP	RC1608-470-J-T	16	16	16	16	16	16	16		X
	R42,45,50,57,62, 94,98,111,139, 144,167,174		RESISTOR/CHIP	RC1608-472-J-T	12	12	12	12	12	12	12		X
	R49,56,61,66,72, 88,143,149,178		RESISTOR/CHIP	RC1608-563-J-T	9	9	9	9	9	9	9		X
	R103,107		RESISTOR/CHIP	RC210-271-J-T	2	2	2	2	2	2	2		X
	R28,29,32,34		RESISTOR/CHIP	RC633-3R6-J-T	4	4	4	4	4	4	4		X
	R40,100,105		RESISTOR/CHIP	RC1608-1002-F-T	3	3	3	3	3	3	3		X
	R101,104		RESISTOR/CHIP	RC1608-1003-F-T	2	2	2	2	2	2	2		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
	R145		RESISTOR/CHIP	RC1608-3001-F-T	1	1	1	1	1	1	1		X
	R147,185		RESISTOR/CHIP	RC1608-4702-F-T	2	2	2	2	2	2	2		X
	R41		RESISTOR/CHIP	RC1608-5602-F-T	1	1	1	1	1	1	1		X
	R14		RESISTOR/CHIP	RC315-15R0-F-T	1	1	1	1	1	1	1		X
N	RM19,20	26601173	RESISTOR/CHIP NETWORK	RAC1608-0004DJT	2	2	2	2	2	2	2	AA	C
	RM1,2,5,9,10,18, 29-33,44,51-53,57, 58,60,61,64,66,68, 70,75-82,90,92-94, 96,110,111	26601156	RESISTOR/CHIP NETWORK	RAC1608-1034DJT	38	38	38	38	38	38	38	AA	C
N	RM59,102-104	26601160	RESISTOR/CHIP NETWORK	RAC1608-1044DJT	4	4	4	4	4	4	4	AA	C
N	RM8,13-17,25-28, 34-38,41-43,45-48	27957901	RESISTOR/CHIP NETWORK	RAC1608-3304DJT	22	22	22	22	22	22	22	AA	C
	RM23,24,39,40,71-74,83-86	10005641	RESISTOR/CHIP NETWORK	RAC1608-4704DJT	12	12	12	12	12	12	12	AA	C
	RM3,4,6,7,21,22, 54-56,69,87-89,91, 95,107	26523047	RESISTOR/CHIP NETWORK	RAC1608-5634DJT	16	16	16	16	16	16	16	AA	C
	C50,51		CAPACITOR/CHIP	GRM1882C1H9R0DZ01D	2	2	2	2	2	2	2		X
	C15-19,21,24-26, 48,58,84,90,99, 100,123,127,133, 134		CAPACITOR/CHIP	GRM1882C1H101JA01D	19	19	19	19	19	19	19		X
	C80,81		CAPACITOR/CHIP	GRM1882C1H150JA01D	2	2	2	2	2	2	2		X
	C13,14,49,147		CAPACITOR/CHIP	GRM188B10J105KA01D	4	4	4	4	4	4	4		X
	C126		CAPACITOR/CHIP	GRM188B11A334KA61D	1	1	1	1	1	1	1		X
	C1,3,4,6,20,22,27, 40,46,52,55,71-77, 82,86,91-93,95,97, 101-122,125,128-132,135-146,154		CAPACITOR/CHIP	GRM188B11E104KA01D	66	66	66	66	66	66	66		X
	C94,96,98		CAPACITOR/CHIP	GRM21BB11H104KA01L	3	3	3	3	3	3	3		X
	C124		CAPACITOR/CHIP	GRM188B11E473KA01D	1	1	1	1	1	1	1		X
	C28,29,33,34		CAPACITOR/CHIP	GRM188B11H472KA01D	4	4	4	4	4	4	4		X
N	CM1-4	28456609	CAPACITOR/CHIP MODULE	CAF13CG101K50AT	4	4	4	4	4	4	4	AA	C
	C12	77201631	CAPACITOR/CHIP TANTALUM	SK4-0J106M-RA	1	1	1	1	1	1	1	AA	C
	C10,39,79	28953056	CAPACITOR/CHIP TANTALUM	SK4-1A107M-RD0	3	3	3	3	3	3	3	AE	C
	C11	28952541	CAPACITOR/CHIP TANTALUM	SK5-1A106M-RA	1	1	1	1	1	1	1	AA	C
	C47	10074012	CAPACITOR/ELECTROLYTIC	RV-16V471MH10-R	1	1	1	1	1	1	1	AC	C
	C30,35	28077818	CAPACITOR/ELECTROLYTIC	RV-35V101MG10-R	2	2	2	2	2	2	2	AB	C
N	C2,5	28077869	CAPACITOR/ELECTROLYTIC	RV2-16V100MB55-R	2	2	2	2	2	2	2	AA	C
	C9,41,45,54,67,78	28073647	CAPACITOR/ELECTROLYTIC	RV2-16V101MS-R	6	6	6	6	6	6	6	AA	C
	C7,87	28077106	CAPACITOR/ELECTROLYTIC	RV2-35V100M-R	2	2	2	2	2	2	2	AA	C
	C88	28073626	CAPACITOR/ELECTROLYTIC	RV3-10V221MF80-R	1	1	1	1	1	1	1	AB	C
	D22,24,26,28	23902058	DIODE/CHIP	1SR154-400TE25	4	4	4	4	4	4	4	AB	B
	D16-19	30007959	DIODE/CHIP	1SS376TE-17	4	4	4	4	4	4	4	AA	B
	D14,21,23,25,27	10009218	DIODE/CHIP	1SS400TE61	5	5	5	5	5	5	5	AA	B
	D15	23153115	DIODE/CHIP ZENER	PTZTE-255.1B	1	1	1	1	1	1	1	AB	B
	D1-9,11	28953130	DIODE/CHIP	RB051L-40TE25	10	10	10	10	10	10	10	AC	B
	D10,12,13,29,30	23903042	DIODE/CHIP	RB521S-30TE61	5	5	5	5	5	5	5	AA	B
	Q12	10076309	TRANSISTOR	2SA1729S-TD	1	1	1	1	1	1	1	AC	B
	Q4	10076310	TRANSISTOR	2SA2012-TD	1	1	1	1	1	1	1	AC	B
	Q6-9	10076311	TRANSISTOR	2SD1626-TD	4	4	4	4	4	4	4	AC	B
N	Q1	10091501	TRANSISTOR	FSS134-TL	1	1	1	1	1	1	1	AQ	B
	Q5	10074017	TRANSISTOR	XP162A12A6PR	1	1	1	1	1	1	1	AF	B
	Q11	25902697	TRANSISTOR/DIGITAL	DTC114EETL	1	1	1	1	1	1	1	AA	B
	Q2,3,10	22592674	TRANSISTOR/DIGITAL	DTC114YETL	3	3	3	3	3	3	3	AA	B
	L1	10074018	INDUCTOR	CDRH104R220NC-T	1	1	1	1	1	1	1	AG	B
	X6	10074020	X' TAL/CHIP	MA406-8.25M-10P	1	1	1	1	1	1	1	AM	A
	X1	10074503	CERALOCK/CHIP	CSTCE8M00G55-R0	1	1	1	1	1	1	1	AB	A
N	X5	10111104	CERALOCK/CHIP	CSTCE10M0G55-R0	1	1	1	1	1	1	1	AC	A
N	X3	10111105	CERALOCK/CHIP	CSTCE16M0V53-R0	1	1	1	1	1	1	1	AC	A
N	X2	10111106	CERALOCK/CHIP	CSTCW20M0X53-R0.	1	1	1	1	1	1	1	AC	A

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
	FU2,3	30008079	FUSE/CHIP	430.500	2	2	2	2	2	2	2	AD	A
	CN15	10074027	CONNECTOR	AXN380130P	1	1	1	1	1	1	1	BE	C
	CN9	77401603	CONNECTOR	B2B-PH-SM3-TB	1	1	1	1	1	1	1	AC	C
	CN25	35019394	CONNECTOR	B2B-ZR-SM3-TF	1	1	1	1	1	1	1	AB	C
	CN11-14	35021809	CONNECTOR	B3B-PH-SM3-TB	4	4	4	4	4	4	4	AC	C
	CN22	35021340	CONNECTOR	B4B-ZR-SM3-TF	1	1	1	1	1	1	1	AB	C
	CN5	35018645	CONNECTOR	B5B-PH-SM3-TB	1	1	1	1	1	1	1	AC	C
	CN17	35017546	CONNECTOR	B5B-ZR-SM3-TF	1	1	1	1	1	1	1	AC	C
N	CN18	35019765	CONNECTOR	B12B-ZR-SM3-TF	1	1	1	1	1	1	1	AD	C
N	CN3	10105405	CONNECTOR	HFW25S-2STE1	1	1	1	1	1	1	1	AK	C
N	CN20	10105403	CONNECTOR	62451-022L	1	1	1	1	1	1	1	BL	C
	SW1	10004466	SLIDE SWITCH	SSSS823-B-3B	1	1	1	1	1	1	1	AF	C
N	CN4	69302476	CONNECTOR	B7B-PH-SM3-TB	1	1	1	1	1	1	1	AF	C
N	IC37	10005307	IC/CMOS	SN74AHC1G08DCKR	1	1	1	1	1	1	1	AA	A
	R177		RESISTOR/CHIP	RC1608-330-J-T	1	1	1	1	1	1	1		X
	R131		RESISTOR/CHIP	RC1608-681-J-T	1	1	1	1	1	1	1		X
	R186		RESISTOR/CHIP	RC1608-1802-F-T	1	1	1	1	1	1	1		X
	C23,31,36,37		CAPACITOR/CHIP	GRM1882C1H271JA01D	4	4	4	4	4	4	4		X
N	C32,89	10047458	CAPACITOR/ELECTROLYTIC	RV3-6V331MF80-R	2	2	2	2	2	2	2	AB	C
	C148		CAPACITOR/CHIP	GRM1882C1H102JA01D	1	1	1	1	1	1	1		X
	X4	10094206	X' TAL/CHIP	C-002RX-8.3/10	1	1	1	1	1	1	1	AF	A
N	R36	10108809	RESISTOR/METAL OXIDE	ERX1SJ5R6P	1	1	1	1	1	1	1	AA	C
	C38	10073679	CAPACITOR/ELECTROLYTIC	RE3-50V102M-T4	1	1	1	1	1	1	1	AD	C
	FU1	30007777	FUSE	230.600	1	1	1	1	1	1	1	AE	A
	CN6	35005846	CONNECTOR	53253-0210	1	1	1	1	1	1	1	AA	C
	CN19	35017728	CONNECTOR	B14B-PHDSS	1	1	1	1	1	1	1	AB	C
	CN21	35802364	CONNECTOR	B30B-PHDSS	1	1	1	1	1	1	1	AE	C
N	CN8	35018288	CONNECTOR	B3P-VH	1	1	1	1	1	1	1	AB	C
N	CN1,2	10105399	CONNECTOR	HLEM25S-1	2	2	2	2	2	2	2	AC	C
	CN7	10073680	CONNECTOR	IMSA-9202B-1-03P-T	1	1	1	1	1	1	1	AA	C
	SP1	32402089	BUZZER	PKM22EPT-2001	1	1	1	1	1	1	1	AE	C
	SW2	10073681	SLIDE SWITCH	SSSU141500	1	1	1	1	1	1	1	AJ	C
N		10105400	SOCKET	IMSA-9206H-T	1	1	1	1	1	1	1	AA	C
			SCREW	S-PAMA-2X6ZC	2	2	2	2	2	2	2		X
	2. LCD block												
N	**2**	10104449	CASE/LCD-F E468	RJE500319-1	1	1	1	1	1	1	1	BD	C
N	**3**	10104450	CASE/LCD-R E468	RJE500320-1	1	1	1	1	1	1	1	BD	C
N	**4**	10104455	SHEET/DISPLAY	RJE500390-1	1	1	1	1	1	1	1	AS	C
N	**5**	10104452	SLIDE KNOB E468	RJE500322-1	1	1	1	1	1	1	1	AB	C
N	**6**	10113417	LCD UNIT	KCG057QV1DB-G00	1	1	1	1	1	1	1	EA	A
N	**7**	10104448	INVERTER/CFL	PS2-70052-001	1	1	1	1	1	1	1	CL	A
	8	10042373	HINGE/HEXA TORQ	KH62B075L	1	1	1	1	1	1	1	BT	C
N	**9**	10104461	PCB ASSY/E468-E2-CL	RJE500425*1	1	1	1	1	1	1	1	BA	A
	R2-9,12-15		RESISTOR/CHIP	MCR03EZHJ470	12	12	12	12	12	12	12		X
	R10		RESISTOR/CHIP	MCR03EZHJ153	1	1	1	1	1	1	1		X
	R11		RESISTOR/CHIP	MCR03EZHJ183	1	1	1	1	1	1	1		X
	R16,TH1		RESISTOR/CHIP	MCR03EZHJ000	2	2	2	2	2	2	2		X
N	CN1	10069249	CONNECTOR	S12B-ZR-SM3A-TF	1	1	1	1	1	1	1	AD	C
N	CN2	79300427	CONNECTOR	SFV20R-1STE1	1	1	1	1	1	1	1	AC	C
N	CN3	35020199	CONNECTOR	S5B-ZR-SM3A-TF	1	1	1	1	1	1	1	AC	C
N	VR1	10105428	SLIDE VOLUME	RS15T11AA000	1	1	1	1	1	1	1	AD	C
N	**10**	10104456	CABLE/FFC JOINER E468	RJE500391-1	1	1	1	1	1	1	1	AE	C
N	**11**	10111055	LCD CABLE SUB ASSY	RJE500385*1	1	1	1	1	1	1	1	AT	C
N	**12**	10111056	LCD CABLE SUB ASSY	RJE500385*2	1	1	1	1	1	1	1	AK	C
N	**13**	10111057	LCD CABLE SUB ASSY	RJE500385*3	1	1	1	1	1	1	1	AG	C
			SCREW	S-PAPT-3X8ZC	4	4	4	4	4	4	4		X
N	**14**	10114076	PANEL/LCD E468	RJE500444-1	1	1	1	1	1	1	1	BT	C
N		10114077	CUSION/LCD V-E468	RJE500371-1	2	2	2	2	2	2	2	AA	X
N		10114078	CUSION/LCD H-E468	RJE500373-1	2	2	2	2	2	2	2	AA	X
			TIE/INSULOCK	T-18S	1	1	1	1	1	1	1		X
N	**15**	10114079	CHASSIS/LCD E468	RJE500482-1	1	1	1	1	1	1	1	AL	C
			SCREW	S-WBPT-3X8ZC	4	4	4	4	4	4	4		X
			SCREW	S-PAMA-3X6B	4	4	4	4	4	4	4		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type				
									Europe	UK	USA		
			SCREW	S-PASEMA-4X5ZC	1	1	1	1	1	1	1		X
			SCREW	S-PASEMA-3X6ZC	2	2	2	2	2	2	2		X
N		10115091	FG CABLE SUB ASSY	RJE500484*1	1	1	1	1	1	1	1	AB	C
N	**16**	10113436	HOLDER/HINGE E468	RJE500441-1	1	1	1	1	1	1	1	AD	C
~~N~~		~~10114087~~	~~SHEET/BLIND E468~~	~~RJE500443-1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~C~~
	3. Customer Display block												
N	**17**	10104422	CASE/RDP E468	RJE500324-1	1	1	1	1	1	1	1	AS	C
N	**18**	10104421	PANEL/RDP E468	RJE500323-1	1	1	1	1	1	1	1	AT	B
	19	43081401	PCB/E445A-E2-2	E340800-1	1	1	1	1	1	1	1	AF	X
	LED3-7	23201365	LED/7SEG	HDSP-5621#S02	5	5	5	5	5	5	5	AP	B
	LED1,2	24088398	LED	GL8EG42	2	2	2	2	2	2	2	AA	B
	CN2	35405193	CONNECTOR	HLW10R-2C7	1	1	1	1	1	1	1	AB	C
	CN1	35405194	CONNECTOR	HLW12R-2C7	1	1	1	1	1	1	1	AB	C
N	**20**	10104445	CABLE/C E468	E440657-12	1	1	1	1	1	1	1	AF	C
N	**21**	10114075	CABLE/D E468	E440657-13	1	1	1	1	1	1	1	AG	C
N		10115537	CUSION/A E468	RJE500539-1	1	1	1	1	1	1	1	AA	X
	4. Button block												
	22	62481255	FRAME/KB E445	E140249-1	1	1	1	1	1	1	1	AU	C
	23	62467810	KETTOP/S	E311101A-4	72	72	72	72	72	72	72	AA	B
	24	62467768	KETTOP/L	E210963A-4	3	3	3	3	3	3	3	AD	B
	25	62210371	CAP/S	E311103A-1	60	60	60	60	60	60	60	AA	B
	26	62213988	CAP/L	E210964-1	3	3	3	3	3	3	3	AB	B
	27	62457250	BUTTON/1	E311792-1	1	1	1	1	1	1	1	AB	C
	28	62457260	BUTTON/2	E311792-2	1	1	1	1	1	1	1	AB	C
	29	62457270	BUTTON/3	E311792-3	1	1	1	1	1	1	1	AB	C
	30	62457280	BUTTON/4	E311792-4	1	1	1	1	1	1	1	AB	C
	31	62457290	BUTTON/6	E311792-5	1	1	1	1	1	1	1	AB	C
	32	62457300	BUTTON/7	E311792-6	1	1	1	1	1	1	1	AB	C
	33	62457310	BUTTON/8	E311792-7	1	1	1	1	1	1	1	AB	C
	34	62457320	BUTTON/9	E311792-8	1	1	1	1	1	1	1	AB	C
	35	62457330	BUTTON/0	E311792-9	1	1	1	1	1	1	1	AB	C
	36	62457340	BUTTON/.	E311792-10	1	1	1	1	1	1	1	AB	C
	37	62457350	BUTTON/00	E311792-11	1	1	1	1	1	1	1	AB	C
	38	62457360	BUTTON/5	E311116-4	1	1	1	1	1	1	1	AB	C
	39	62471478	BUTTON FILLER	E311197-2	4	4	4	4	4	4	4	AB	C
	40	62480990	RUBBER/CONTACT	E411877A-1	75	75	75	75	75	75	75	AA	B
	41	62473830	SPRING/COIL	E411104A-1	3	3	3	3	3	3	3	AA	B
			SCREW	S-WBPT-3X8ZC	10	10	10	10	10	10	10		X
	42	62473837	SPRING/COIL	E411104A-2	7	7	7	7	7	7	7	AA	B
	43	62481750	FPC/E445	E240507A-1	1	1	1	1	1	1	1	BF	B
	44	62481294	SHEET/COMMON	E340737-1	1	1	1	1	1	1	1	AV	B
	45	62481295	SPACER/E445	E340738-1	1	1	1	1	1	1	1	AF	C
	46	62481296	CHASSIS/KB E445	E340739-1	1	1	1	1	1	1	1	AK	C
	%-		PLATE/S	E240526-6	1	1	1	1	1	1	1		X
	-		PLATE/S	E240526-7	1	1	1	1	1	1	1		X
	5		PLATE/S	E240526-25	1	1	1	1	1	1	1		X
	6		PLATE/S	E240526-26	1	1	1	1	1	1	1		X
	7		PLATE/S	E240526-27	1	1	1	1	1	1	1		X
	8		PLATE/S	E240526-28	1	1	1	1	1	1	1		X
	9		PLATE/S	E240526-29	1	1	1	1	1	1	1		X
	10		PLATE/S	E240526-30	1	1	1	1	1	1	1		X
	11		PLATE/S	E240526-31	1	1	1	1	1	1	1		X
	12		PLATE/S	E240526-32	1	1	1	1	1	1	1		X
	13		PLATE/S	E240526-33	1	1	1	1	1	1	1		X
	14		PLATE/S	E240526-34	1	1	1	1	1	1	1		X
	15		PLATE/S	E240526-35	1	1	1	1	1	1	1		X
	16		PLATE/S	E240526-36	1	1	1	1	1	1	1		X
	17		PLATE/S	E240526-37	1	1	1	1	1	1	1		X
	18		PLATE/S	E240526-38	1	1	1	1	1	1	1		X
	19		PLATE/S	E240526-39	1	1	1	1	1	1	1		X
	20		PLATE/S	E240526-40	1	1	1	1	1	1	1		X
	21		PLATE/S	E240526-41	1	1	1	1	1	1	1		X
	22		PLATE/S	E240526-42	1	1	1	1	1	1	1		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
	23		PLATE/S	E240526-43	1	1	1	1	1	1	1		X
	24		PLATE/S	E240526-44	1	1	1	1	1	1	1		X
	1		PLATE/S	E240526-57	1	1	1	1	1	1	1		X
	2		PLATE/S	E240526-58	1	1	1	1	1	1	1		X
	3		PLATE/S	E240526-59	1	1	1	1	1	1	1		X
	4		PLATE/S	E240526-60	1	1	1	1	1	1	1		X
	RECEIPT FEED		PLATE/S	E240526-61	1	1	1	1	1	1	1		X
	JOURNAL FEED		PLATE/S	E240526-62	1	1	1	1	1	1	1		X
	RECEIPT		PLATE/S	E240526-63	1	1	1	1	1	1	1		X
	MEDIA CHANGE		PLATE/S	E240526-65	1	1	1	1	1	1	1		X
	#/NS		PLATE/S	E240526-66	1	1	1	1	1	1	1		X
	RF		PLATE/S	E240526-67	1	1	1	1	1	1	1		X
	C		PLATE/S	E240526-69	1	1	1	1	1	1	1		X
	OPEN		PLATE/S	E240526-71	1	1	1	1	1	1	1		X
	RC		PLATE/S	E240526-73	1	1	1	1	1	1	1		X
	CR1		PLATE/S	E240526-75	1	1	1	1	1	1	1		X
	CR2		PLATE/S	E240526-76	1	1	1	1	1	1	1		X
	CHK/TEND		PLATE/S	E240526-78	1	1	1	1	1	1	1		X
	PD		PLATE/S	E240526-83	1	1	1	1	1	1	1		X
	NEW/OLD CHK		PLATE/S	E240526-88	1	1	1	1	1	1	1		X
	NB		PLATE/S	E240526-92	1	1	1	1	1	1	1		X
	CANCEL		PLATE/S	E240526-108	1	1	1	1	1	1	1		X
	X		PLATE/S	E240526-109	1	1	1	1	1	1	1		X
	VOID		PLATE/S	E240526-110	1	1	1	1	1	1	1		X
	YES		PLATE/S	E240526-111	1	1	1	1	1	1	1		X
	NO		PLATE/S	E240526-112	1	1	1	1	1	1	1		X
	PAGE DOWN		PLATE/S	E240526-113	1	1	1	1	1	1	1		X
	PAGE UP		PLATE/S	E240526-114	1	1	1	1	1	1	1		X
	HOME		PLATE/S	E240526-115	1	1	1	1	1	1	1		X
	->		PLATE/S	E240526-118	4	4	4	4	4	4	4		X
	COVERS		PLATE/S	E240526-89	1	1	1	1	1	1	1		X
	TABLE TRANS		PLATE/S	E240526-90	1	1	1	1	1	1	1		X
	PRICE		PLATE/S	E240526-122	1	1	1	1	1	1	1		X
	LIST#		PLATE/S	E240526-123	1	1	1	1	1	1	1		X
	CH		PLATE/S	E240526-77	1	1	1	1	1	1	1		X
	MENU SHIFT		PLATE/S	E240526-125	1	1	1	1	1	1	1		X
	ESC/SKIP		PLATE/S	E240526-126	1	1	1	1	1	1	1		X
	PLU		PLATE/L	E240527-1	1	1	1	1	1	1	1		X
	SUB TOTAL		PLATE/L	E240527-21	1	1	1	1	1	1	1		X
	CA/AMT TEND		PLATE/L	E240527-23	1	1	1	1	1	1	1		X
	5. Power supply block												
	47	62214802	CORD/POWER	M2511	1				1			BC	C
	48	37010242	CORD/POWER	MP5004		1				1		BO	C
	49	37004283	CORD/POWER	M3203				1				AZ	C
	50	10023027	CORD/POWER	PS204-A			1				1	AR	C
N	**51**	10104443	POWER SUPPLY	SPS-468	1	1	1	1	1	1	1	DN	A
~~N~~		~~94870806~~	~~FUSE~~	~~213 3.15~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~A~~
N		10017328	FUSE	213002	1	1	1	1	1	1	1	AD	A
			CONNECTOR	CE2	1	1	1	1	1	1	1		
	6. Upper case block												
N	**52**	10104622	BUSH/RDP E468	RJE500339-1	1	1	1	1	1	1	1	AC	C
			SCREW	S-WBPT-3X20ZC	2	2	2	2	2	2	2		X
			SCREW	S-WBPT-3X8ZC	19	19	19	19	19	19	19		X
N		10104383	SHEET/INSULATOR	RJE500396-1	1	1	1	1	1	1	1	AB	C
N	**53**	10104384	KEYTOP/F	RJE500397-1	1	1	1	1	1	1	1	AE	B
N	**54**	10104386	RUBBER/CONTACT	RJE500398-1	1	1	1	1	1	1	1	AI	B
N	**55**	10115540	CHASSIS/MODE KEY	RJE500481-1	1	1	1	1	1	1	1	BL	C
N	**56**	10104388	CASE/DISPLAY	RJE500406-1	1	1	1	1	1	1	1	BJ	C
N	**57**	10111059	KEY CABLE SUB ASSY	RJE500388*1	1	1	1	1	1	1	1	BN	C
N	**58**	10111063	KEY CABLE SUB ASSY	RJE500388*2	1	1	1	1	1	1	1	BF	C
N	**59**	10104390	COVER/HINGE	RJE500429-1	1	1	1	1	1	1	1	AO	C
N	**60**	10113482	CASE/UPPER	RJE500442-1	1	1	1	1	1	1	1	AV	C
			SCREW	S-PASEMA-3X6ZC	2	2	2	2	2	2	2		X
			SCREW	S-PASEMA-4X5ZC	3	3	3	3	3	3	3		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	Rank
					Europe	UK	USA/ Canada	Australia	Other Countries				
									Plug Type				
									Europe	UK	USA		
			SCREW	S-PAMA-3X6B	2	2	2	2	2	2	2		X
N	61	1011 4130	COVER/MODE KEY	RJE500440-2	1	1	1	1	1	1	1		C
N		1011 5091	FG CABLE SUB ASSY	RJE500484*1	1	1	1	1	1	1	1		C
N		1011 5092	FG CABLE SUB ASSY	RJE500484*2	1	1	1	1	1	1	1		C
N		1011 5541	SHEET/BLIND	RJE500514-1	1	1	1	1	1	1	1		C
N	62	1011 5542	PLATE/L HOOK	RJE500521-1	1	1	1	1	1	1	1		C
N	63	1011 5543	PLATE/R HOOK	RJE500522-1	1	1	1	1	1	1	1		C
N	64	1010 4419	COVER/PRINTER	RJE500325-1	1	1	1	1	1	1	1		C
N	65	1010 4420	COVER/JOURNAL	RJE500326-1	1	1	1	1	1	1	1		C
N	66	1010 4349	COVER/SHEET	RJE500395-1	1	1	1	1	1	1	1		C
N	67	1011 5542	CYLINDER LOCK ASSY	E341056*2	1	1	1	1	1	1	1		B
	68	6246 5000	KEY SET/PRINTER COVER	E412062*1	1	1	1	1	1	1	1	AG	B
			SCREW	S-BDMA-3X5NI	4	4	4	4	4	4	4		X
			SCREW	S-BDMA-4X12NI	1	1	1	1	1	1	1		X
			SCREW	S-BDMA-4X10B	1	1	1	1	1	1	1		X
	69	1010 4365	SHEET/MODE MENU	RJE500350-2	1	1	1	1	1	1	1		B
	70	1010 4364	SHEET/SPACE MENU	RJE500350-1	1	1	1	1	1	1	1		B
7. LOWER CASE BLOCK													
N	71	1010 4438	CASE/LOWER E468	RJE500338-1	1	1	1	1	1	1	1		C
N	72	1010 4428	MAIN CHASSIS E468	RJE500304-1	1	1	1	1	1	1	1		C
N	73	1010 4436	SUB CHASSIS E468	RJE500305-1	1	1	1	1	1	1	1		C
	74	1005 4340	INLINE CABLE SUB ASSY	E440720*3	1	1	1	1	1	1	1	AE	C
N		1008 5156	DRAWER CABLE SUB ASSY	E440737*1	1	1	1	1	1	1	1		C
N	75	1010 4437	COVER/CF E468	RJE500311-1	1	1	1	1	1	1	1		C
N	76	1010 4444	CABLE/FFC JOINER BE468	E440657-11	1	1	1	1	1	1	1		C
N	77	1010 4429	CHASSIS/POWER SUPPLY	RJE500404-1	1	1	1	1	1	1	1		C
N	78	1010 4440	ARC CABLE SUB ASSY	RJE500386*1	1	1	1	1	1	1	1		C
N	79	1010 4439	COVER/POWER SWITCH	RJE500340-1	1	1	1	1	1	1	1		C
N		6247 2318	CABLE/FG	E310997-26	1	1	1	1	1	1	1		X
N	80	1011 4111	CHASSIS/GROUND	RJE500453-1	1	1	1	1	1	1	1		C
N	81	1011 4112	PLATE/CORD	RJE500448-1	1	1	1	1	1	1	1		C
N	82	1011 4113	CHASSIS/CONNECTOR	RJE500479-1	1	1	1	1	1	1	1		C
	83	6221 3892	ROLLER/E233	E411377-1	2	2	2	2	2	2	2	AA	B
			SCREW	N-HXT3-4ZC	2	2	2	2	2	2	2		X
			SCREW	S-WBPT-3X8ZC	11	11	11	11	11	11	11		X
			TIE/INSULOCK	T-18S	2	1	1	1	1	1	1		X
			SCREW	S-PASLMA-3X5ZC	6	6	6	6	6	6	6		X
			SCREW	S-PASLMA-4X5ZC	6	6	6	6	6	6	6		X
			SCREW	S-PASEMA-3X6ZC	6	6	6	6	6	6	6		X
			SCREW	S-PASEMA-4X5ZC	2	2	2	2	2	2	2		X
			SCREW	S-WBPT-4X10ZC	4	4	4	4	4	4	4		X
			CLIP	CS-4U	3	3	3	3	3	3	3		X
			SCREW	S-PASLMA-4X35ZC	2	2	2	2	2	2	2		X
			SCREW	S-BDMA-6X10NI	2	2	2	2	2	2	2		X
N		1011 4221	SPACER/E468	RJE500491-1	1	1	1	1	1	1	1		C
	84	3000 7581	FASTEN TAB	23031-2	1	1	1	1	1	1	1	AA	C
N	85	1011 4118	NUT/E468	RJE500451-1	2	2	2	2	2	2	2		C
			NUT	NO.4-40UNC(ZC)	2	2	2	2	2	2	2		X
			SCREW	JFS-4S-B1WM	2	2	2	2	2	2	2		X
N	86	1011 5094	COM CABLE SUB ASSY	RJE500478*1	1	1	1	1	1	1	1		C
N		1011 4126	LABEL/COM A-E468	RJE500494-1	1	1	1	1	1	1	1		X
N		1011 4127	LABEL/COM B-E468	RJE500495-1	1	1	1	1	1	1	1		X
N		1011 4128	LABEL/ARC E468	RJE500496-1	1	1	1	1	1	1	1		X
N	87	1010 4345	COVER/CONNECTOR	RJE500328-1	1	1	1	1	1	1	1		C
N		1011 4090	COVER/SWITCH	RJE500492-1	1	1	1	1	1	1	1		C
N		1011 5526	RUBBER/PAD	RJE500485-1	4	4	4	4	4	4	4		C
8. PRINTER BLOCK													
N	88	9487 0779	FRAME UNIT/JOURNAL	1232726	1	1	1	1	1	1	1	CX	C
N	89	9487 0781	BELT/PAPER TAKE-UP	1231986	1	1	1	1	1	1	1	AD	B
N	90	9487 0780	SHAFT/PAPER ROLLING	1232732	1	1	1	1	1	1	1	AQ	B
N	91	9487 0773	FRAME UNIT/RECEIPT	1232684	1	1	1	1	1	1	1	CY	C
		* 91 There are 2 versions of the receipt printer. Please refer to the service bulletin ECR-543 for the details.											
N	92	9487 0774	SCREW	1018232	1	1	1	1	1	1	1	AA	X
N	93	9487 0775	CUTTER UNIT	1236376	1	1	1	1	1	1	1	BS	A

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
N	**94**	94870776	SCREW	1073844	2	2	2	2	2	2	2	AB	X
N	**95**	94870777	CUTTER/FIXED	1231681	1	1	1	1	1	1	1	BK	A
N	**96**	94870778	SPRING	1231999	1	1	1	1	1	1	1	AA	B
N	**97**	10114233	CHASSIS/PR L	RJE500466-1	1	1	1	1	1	1	1	AR	C
N	**98**	10114234	CHASSIS/PR R	RJE500470-1	1	1	1	1	1	1	1	AR	C
N	**99**	10114235	CHASSIS/PR C	RJE500474-1	1	1	1	1	1	1	1	AR	C
N	**100**	10114236	CHASSIS/PR MOUNT	RJE500446-1	2	2	2	2	2	2	2	AC	C
N	**101**	10114237	SHAFT/E468	RJE500450-1	2	2	2	2	2	2	2	AC	C
			SCREW	S-PASLMA-3X5ZC	4	4	4	4	4	4	4		X
			SCREW	S-PAMA-3X5ZC	6	6	6	6	6	6	6		X
N	**102**	10114238	E-RING	R-ER-3TCBL	4	4	4	4	4	4	4	AA	C
N	**103**	10113437	COVER/PR PROTECT	RJE500467-1	1	1	1	1	1	1	1	AF	C
N	**104**	10104346	COVER/CUTTER	RJE500329-1	1	1	1	1	1	1	1	AR	C
	9. Clerk switch circuit												
N	**105**	10104389	PCB ASSY/E468-E6	RJE500416*1	1	1	1	1	1	1	1	CN	B
	IC1,2,5	10005662	IC/CMOS	SN74LV374APWR	3	3	3	3	3	3	3	AF	A
	IC3,4,6	21120823	IC	BA12003BF-E2	3	3	3	3	3	3	3	AF	A
	R1,2,7		RESISTOR/CHIP	MCR03EZHJ000	3	3	3	3	3	3	3		X
	R11-13,15-21, 24-30		RESISTOR/CHIP	MCR03EZHJ101	17	17	17	17	17	17	17		X
	R3,5,8,10,22		RESISTOR/CHIP	MCR03EZHJ103	5	5	5	5	5	5	5		X
	R4,6,9,14,23		RESISTOR/CHIP	MCR03EZHJ471	5	5	5	5	5	5	5		X
	RM1-5	27753288	RESISTOR/CHIP NETWORK	MNR14E0ABJ103	5	5	5	5	5	5	5	AA	C
	C2,4,6		CAPACITOR/CHIP	GRM1882C1H101JA01D	3	3	3	3	3	3	3		X
	C1,3,5		CAPACITOR/CHIP	GRM188B11E104KA01D	3	3	3	3	3	3	3		X
	C7	28073647	CAPACITOR/ELECTROLYTIC	RV2-16V101MS-R	1	1	1	1	1	1	1	AA	C
	D1-15	10009218	DIODE/CHIP	1SS400TE61	15	15	15	15	15	15	15	AA	B
	Q1-5	22501603	TRANSISTOR/CHIP	2SB1182TLQR	5	5	5	5	5	5	5	AC	B
	CN2	35405184	CONNECTOR	HFW10S-2STE1	1	1	1	1	1	1	1	AB	C
	CN1	35405185	CONNECTOR	HFW12S-2STE1	1	1	1	1	1	1	1	AB	C
N	CN6	10105680	CONNECTOR	HFW4R-2STE1	1	1	1	1	1	1	1	AF	C
	CN5	35405190	CONNECTOR	SFW27R-5STE1	1	1	1	1	1	1	1	AE	C
	SW1-10	34121029	SWITCH/TACT	SKHHAL	10	10	10	10	10	10	10	AA	B
	CN3	35017728	CONNECTOR	B14B-PHDSS	1	1	1	1	1	1	1	AB	C
	CN4	35802364	CONNECTOR	B30B-PHDSS	1	1	1	1	1	1	1	AE	C
	10. Connector board												
N	**106**	10105423	PCB/E468-CNB1	RJE500415-1	1	1	1	1	1	1	1	AD	C
N	CN1	10105422	CONNECTOR	HLW25R-2C7	1	1	1	1	1	1	1	AE	C
	CN2-4	30007917	CONNECTOR	ID9P33E4GX28	3	3	3	3	3	3	3	AK	C
	11. ARCNET In-line board												
N	**107**	10105420	PCB/E468-ARC	RJE500412-1	1	1	1	1	1	1	1	AF	C
N	IC1	10105419	IC	HYC2000	1	1	1	1	1	1	1	BV	A
	R5	10074510	REGISTOR/CHIP	RD25SM10-6101J	1	1	1	1	1	1	1	AA	X
N	R3,4	10082973	REGISTOR/CHIP	RD25SM10-6154J	1	1	1	1	1	1	1	AA	X
N	C1	10073686	CAPACITOR	ECQ-V1H104JZW	1	1	1	1	1	1	1	AD	X
	C2	10073688	CAPACITOR/ELECTROLYTIC	RE3-16V470M	1	1	1	1	1	1	1	AA	C
	C3,4	10074512	CAPACITOR	DEA1X3A180JC1B	2	2	2	2	2	2	2	AA	X
N	CN2,3	35020073	CONNECTOR	TM5RJ3-88	2	2	2	2	2	2	2	AT	C
N	SW1	10105421	SLIDE SWITCH	SSSU111400	1	1	1	1	1	1	1	AI	C
	CN1	35016307	CONNECTOR	S5B-PH-K-S	1	1	1	1	1	1	1	AA	C
	12. Other												
N	**108**	10103367	BATTERY/LITHIUM	VL3032/SGB	1	1	1	1	1	1	1	CQ	A
		10029671	SCREW/DRAWER	E441149-1	2	2	2	2	2	2	2	AF	C

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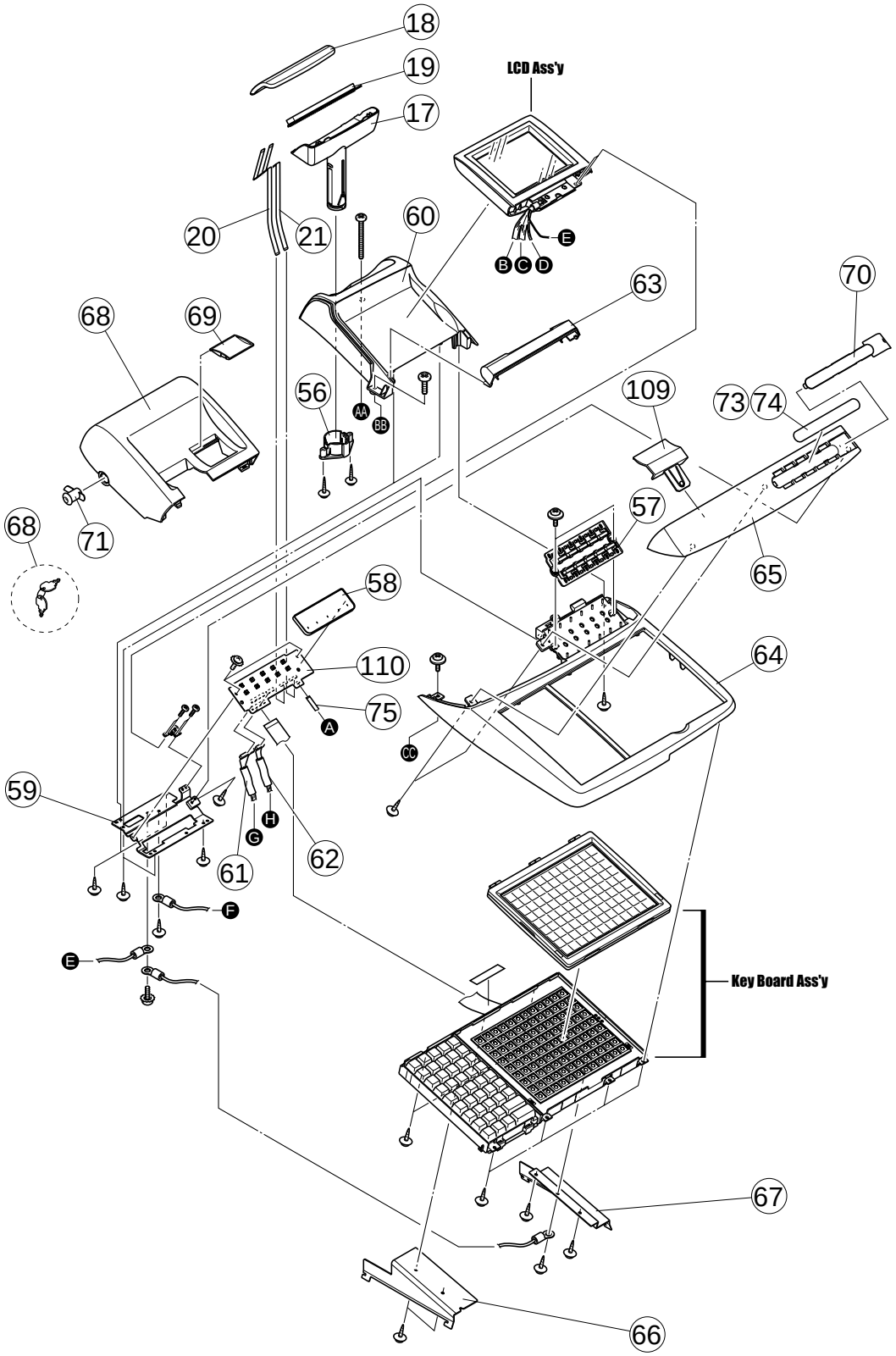
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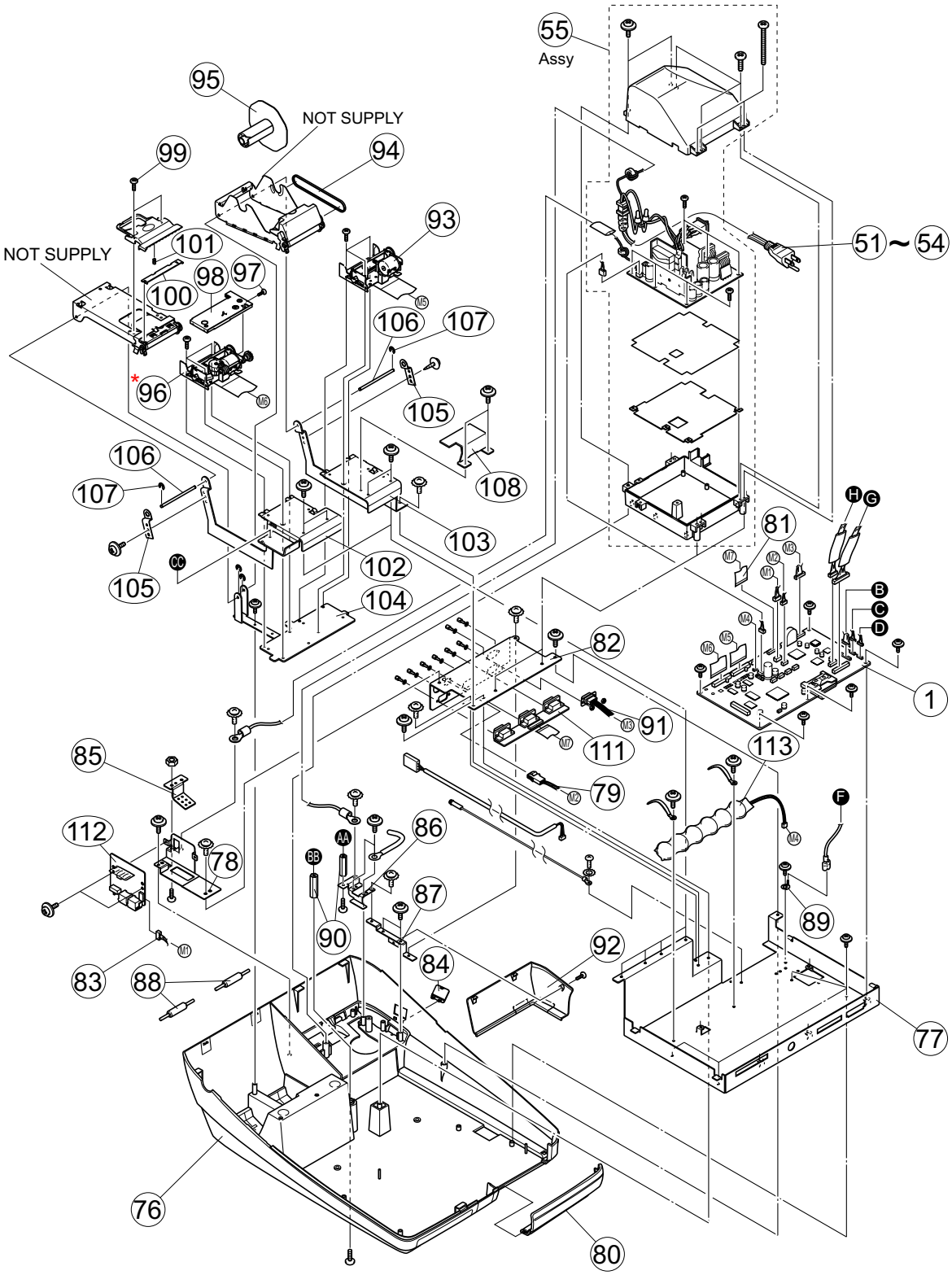
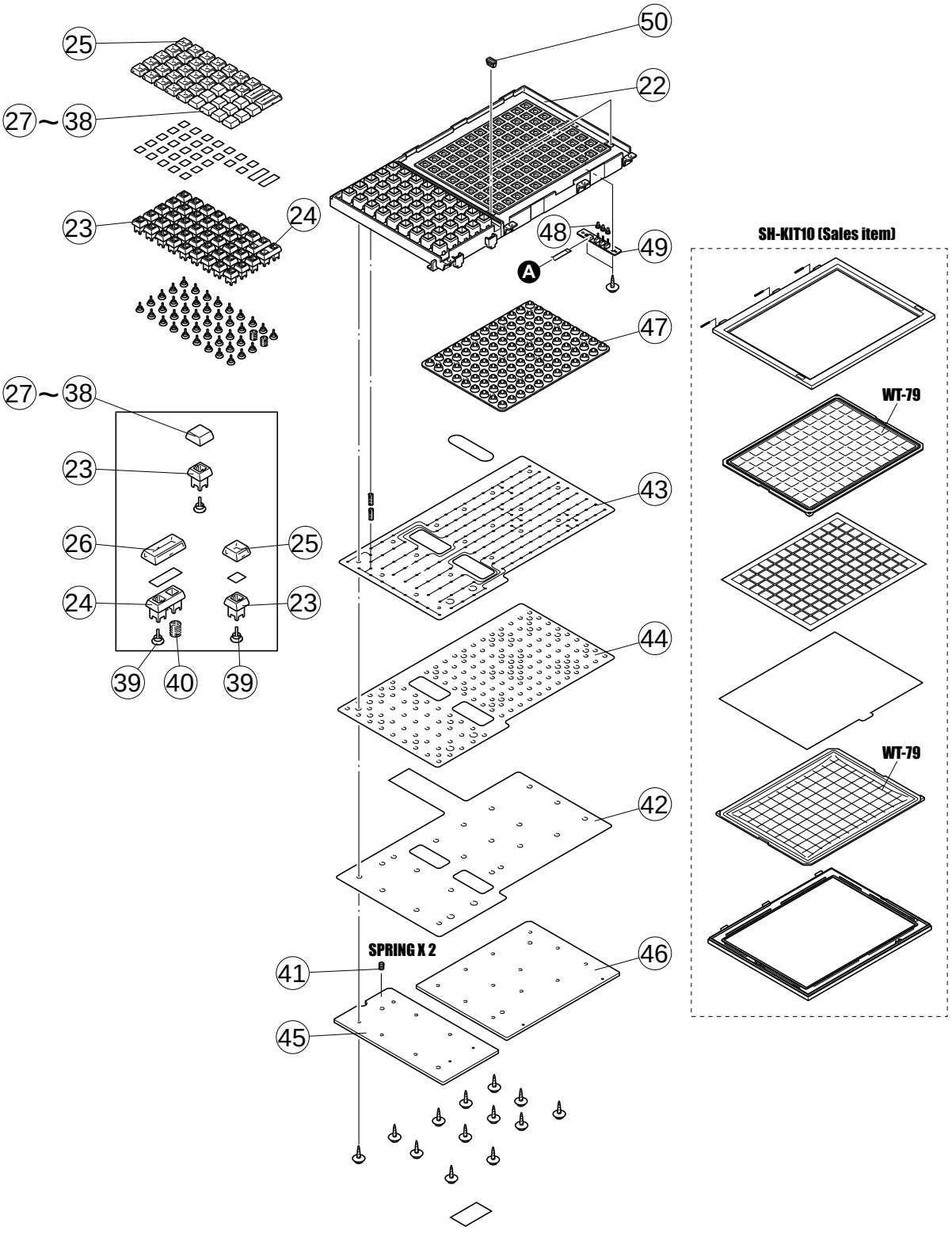


* 96 There are 2 versions of the receipt printer. Please refer to the service bulletin ECR-543 for the details.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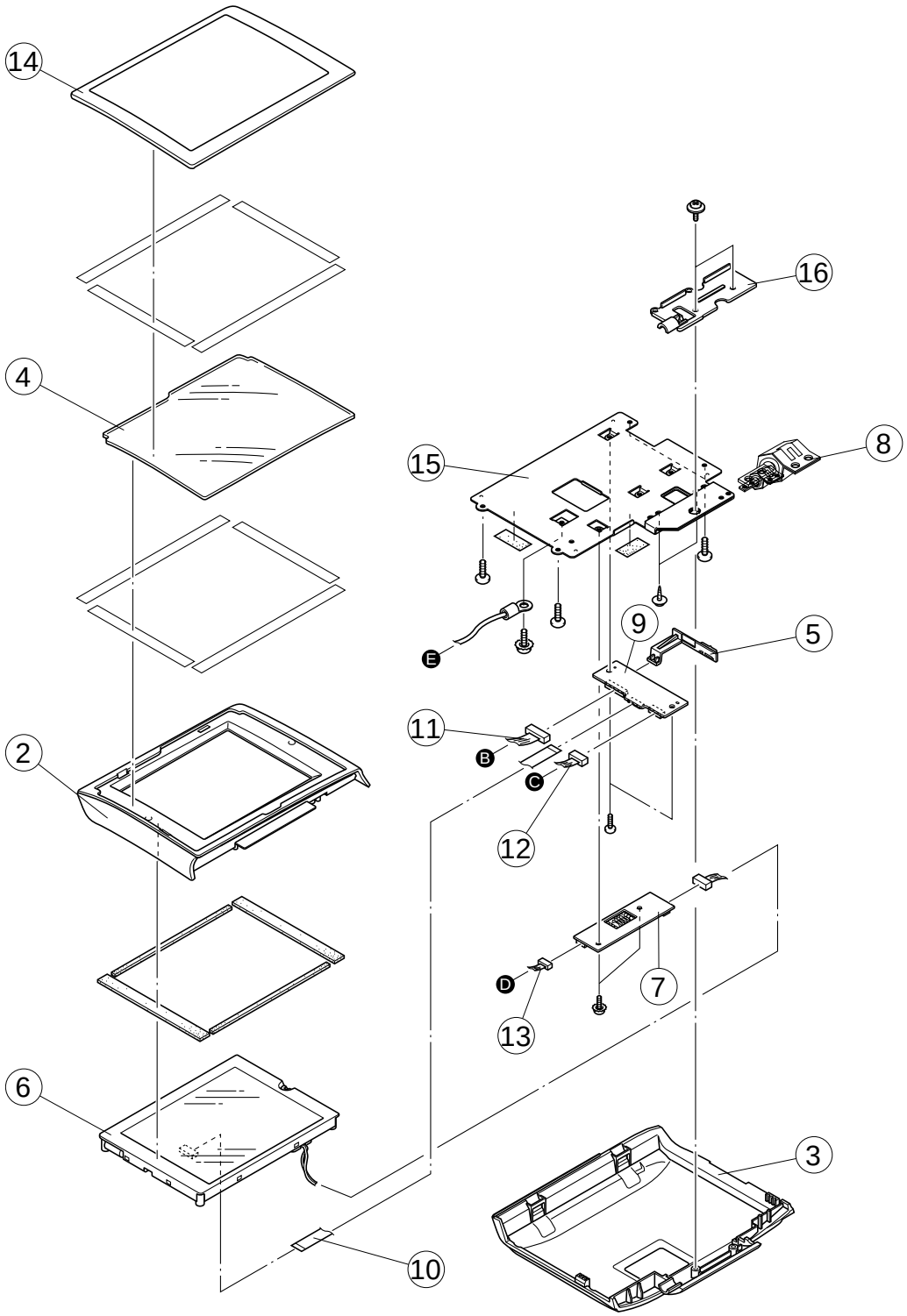
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N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type				
									Europe	UK	USA		
	1. MAIN PCB BLOCK												
N	**1,(49)**	10118742	PCB ASSY SET/E468-1 (2pcs)	RJE500408*2	1	1	1	1	1	1	1	EK	A
N	IC33	10100136	LSI	HD6417706F133	1	1	1	1	1	1	1	CK	A
N	IC21	10111217	LSI	UPD784215AGC8028EU	1	1	1	1	1	1	1	BN	A
	IC10	10073986	LSI	UPD65945GJ-P16-JEU	1	1	1	1	1	1	1	BU	A
N	IC19	10103458	LSI	MBM29DL324BE90TNAA	1	1	1	1	1	1	1	BW	A
N	IC18	10100310	LSI	MD56V62160E-10TAB0	1	1	1	1	1	1	1	BU	A
N	IC13	10100311	LSI	S1D13705F00A100	1	1	1	1	1	1	1	CF	A
	IC11	10006024	LSI	COM20019ILJP	1	1	1	1	1	1	1	CF	A
	IC35,36	21120788	IC	L6219DS	2	2	2	2	2	2	2	BC	A
N	IC20	10105416	IC/CMOS	SN74AHCT08PWR	1	1	1	1	1	1	1	AC	A
	IC16	10003984	IC/CMOS	SN74LV00APWR	1	1	1	1	1	1	1	AB	A
N	IC32	10105417	IC/CMOS	SN74LV07APWR	1	1	1	1	1	1	1	AA	A
	IC31,34	10005659	IC/CMOS	SN74LV08APWR	2	2	2	2	2	2	2	AB	A
	IC15	10007179	IC/CMOS	SN74LV10APWR	1	1	1	1	1	1	1	AC	A
	IC8	21056580	IC/CMOS	SN74LV14APWR	1	1	1	1	1	1	1	AC	A
	IC9	10005721	IC/CMOS	SN74LV244APWR	1	1	1	1	1	1	1	AF	A
N	IC27,28	10105407	IC/CMOS	SN74LVC244APWR	2	2	2	2	2	2	2	AA	A
N	IC29,30	10105408	IC/CMOS	SN74LVC245APWR	2	2	2	2	2	2	2	AA	A
N	IC22	10105409	IC/CMOS	SN74LVU04APWR	1	1	1	1	1	1	1	AD	A
	IC6	10074001	IC/MOS	XC6201P192MR	1	1	1	1	1	1	1	AC	A
	IC5	10074002	IC/MOS	XC62EP1902MR	1	1	1	1	1	1	1	AC	A
	IC4	10074003	IC/MOS	XC6365A363MR	1	1	1	1	1	1	1	AG	A
	IC17	21120763	IC/RESET	M51957BFP-T1	1	1	1	1	1	1	1	AJ	A
	IC14	10074005	IC	SN751178NSR	1	1	1	1	1	1	1	BG	A
	IC1-3	21120820	IC	HIN211CA-T	3	3	3	3	3	3	3	AT	A
	IC7,39	21120821	IC	BA10393F-E2	2	2	2	2	2	2	2	AB	A
	R1-9,51,53,86,87, 163,-166,168,170, 176		RESISTOR/CHIP	RC1608-000-T	20	20	20	20	20	20	20		X
	R128,130,137,138,		RESISTOR/CHIP	RC1608-100-J-T	4	4	4	4	4	4	4		X
	R84,85,99,109, 152,153,155,156		RESISTOR/CHIP	RC1608-101-J-T	8	8	8	8	8	8	8		X
	R18,24,30,34,68, 71,113,114,129, 136,142,162		RESISTOR/CHIP	RC1608-102-J-T	12	12	12	12	12	12	12		X
	R10,16,17,19-22, 25-27,43,44,89,92, 97,110,127,133, 141,146,150,151, 154,157-160,169, 182		RESISTOR/CHIP	RC1608-103-J-T	29	29	29	29	29	29	29		X
	R95,140		RESISTOR/CHIP	RC1608-104-J-T	2	2	2	2	2	2	2		X
	R67,183		RESISTOR/CHIP	RC1608-105-J-T	2	2	2	2	2	2	2		X
	R47,48,54,55,59, 60,64,65		RESISTOR/CHIP	RC1608-123-J-T	8	8	8	8	8	8	8		X
	R46,52,58,63		RESISTOR/CHIP	RC1608-202-J-T	4	4	4	4	4	4	4		X
	R12,15,23,31,35, 134,135		RESISTOR/CHIP	RC1608-203-J-T	7	7	7	7	7	7	7		X
	R112		RESISTOR/CHIP	RC1608-222-J-T	1	1	1	1	1	1	1		X
	R13		RESISTOR/CHIP	RC1608-331-J-T	1	1	1	1	1	1	1		X
	R115-126,184		RESISTOR/CHIP	RC1608-332-J-T	13	13	13	13	13	13	13		X
	R73-83,90,91,96, 108,132		RESISTOR/CHIP	RC1608-470-J-T	16	16	16	16	16	16	16		X
	R42,45,50,57,62, 94,98,111,139, 144,167,174		RESISTOR/CHIP	RC1608-472-J-T	12	12	12	12	12	12	12		X
	R49,56,61,66,72, 88,143,149,178		RESISTOR/CHIP	RC1608-563-J-T	9	9	9	9	9	9	9		X
	R103,107		RESISTOR/CHIP	RC210-271-J-T	2	2	2	2	2	2	2		X
	R28,29,32,34		RESISTOR/CHIP	RC633-3R6-J-T	4	4	4	4	4	4	4		X
	R40,100,105		RESISTOR/CHIP	RC1608-1002-F-T	3	3	3	3	3	3	3		X
	R101,104		RESISTOR/CHIP	RC1608-1003-F-T	2	2	2	2	2	2	2		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
	R145		RESISTOR/CHIP	RC1608-3001-F-T	1	1	1	1	1	1	1		X
	R147,185		RESISTOR/CHIP	RC1608-4702-F-T	2	2	2	2	2	2	2		X
	R41		RESISTOR/CHIP	RC1608-5602-F-T	1	1	1	1	1	1	1		X
	R14		RESISTOR/CHIP	RC315-15R0-F-T	1	1	1	1	1	1	1		X
N	RM19,20	26601173	RESISTOR/CHIP NETWORK	RAC1608-0004DJT	2	2	2	2	2	2	2	AA	C
	RM1,2,5,9,10,18, 29-33,44,51-53,57, 58,60,61,64,66,68, 70,75-82,90,92-94, 96,110,111	26601156	RESISTOR/CHIP NETWORK	RAC1608-1034DJT	38	38	38	38	38	38	38	AA	C
N	RM59,102-104	26601160	RESISTOR/CHIP NETWORK	RAC1608-1044DJT	4	4	4	4	4	4	4	AA	C
N	RM8,13-17,25-28, 34-38,41-43,45-48	27957901	RESISTOR/CHIP NETWORK	RAC1608-3304DJT	22	22	22	22	22	22	22	AA	C
	RM23,24,39,40,71-74,83-86	10005641	RESISTOR/CHIP NETWORK	RAC1608-4704DJT	12	12	12	12	12	12	12	AA	C
	RM3,4,6,7,21,22, 54-56,69,87-89,91, 95,107	26523047	RESISTOR/CHIP NETWORK	RAC1608-5634DJT	16	16	16	16	16	16	16	AA	C
	C50,51		CAPACITOR/CHIP	GRM1882C1H9R0DZ01D	2	2	2	2	2	2	2		X
	C15-19,21,24-26, 48,58,84,90,99, 100,123,127,133, 134		CAPACITOR/CHIP	GRM1882C1H101JA01D	19	19	19	19	19	19	19		X
	C80,81		CAPACITOR/CHIP	GRM1882C1H150JA01D	2	2	2	2	2	2	2		X
	C13,14,49,147		CAPACITOR/CHIP	GRM188B10J105KA01D	4	4	4	4	4	4	4		X
	C126		CAPACITOR/CHIP	GRM188B11A334KA61D	1	1	1	1	1	1	1		X
	C1,3,4,6,20,22,27, 40,46,52,55,71-77, 82,86,91-93,95,97, 101-122,125,128-132,135-146,154		CAPACITOR/CHIP	GRM188B11E104KA01D	66	66	66	66	66	66	66		X
	C94,96,98		CAPACITOR/CHIP	GRM21BB11H104KA01L	3	3	3	3	3	3	3		X
	C124		CAPACITOR/CHIP	GRM188B11E473KA01D	1	1	1	1	1	1	1		X
	C28,29,33,34		CAPACITOR/CHIP	GRM188B11H472KA01D	4	4	4	4	4	4	4		X
N	CM1-4	28456609	CAPACITOR/CHIP MODULE	CAF13CG101K50AT	4	4	4	4	4	4	4	AA	C
	C12	77201631	CAPACITOR/CHIP TANTALUM	SK4-0J106M-RA	1	1	1	1	1	1	1	AA	C
	C10,39,79	28953056	CAPACITOR/CHIP TANTALUM	SK4-1A107M-RD0	3	3	3	3	3	3	3	AE	C
	C11	28952541	CAPACITOR/CHIP TANTALUM	SK5-1A106M-RA	1	1	1	1	1	1	1	AA	C
	C47	10074012	CAPACITOR/ELECTROLYTIC	RV-16V471MH10-R	1	1	1	1	1	1	1	AC	C
	C30,35	28077818	CAPACITOR/ELECTROLYTIC	RV-35V101MG10-R	2	2	2	2	2	2	2	AB	C
N	C2,5	28077869	CAPACITOR/ELECTROLYTIC	RV2-16V100MB55-R	2	2	2	2	2	2	2	AA	C
	C9,41,45,54,67,78	28073647	CAPACITOR/ELECTROLYTIC	RV2-16V101MS-R	6	6	6	6	6	6	6	AA	C
	C7,87	28077106	CAPACITOR/ELECTROLYTIC	RV2-35V100M-R	2	2	2	2	2	2	2	AA	C
	C88	28073626	CAPACITOR/ELECTROLYTIC	RV3-10V221MF80-R	1	1	1	1	1	1	1	AB	C
	D22,24,26,28	23902058	DIODE/CHIP	1SR154-400TE25	4	4	4	4	4	4	4	AB	B
	D16-19	30007959	DIODE/CHIP	1SS376TE-17	4	4	4	4	4	4	4	AA	B
	D14,21,23,25,27	10009218	DIODE/CHIP	1SS400TE61	5	5	5	5	5	5	5	AA	B
	D15	23153115	DIODE/CHIP ZENER	PTZTE-255.1B	1	1	1	1	1	1	1	AB	B
	D1-9,11	28953130	DIODE/CHIP	RB051L-40TE25	10	10	10	10	10	10	10	AC	B
	D10,12,13,29,30	23903042	DIODE/CHIP	RB521S-30TE61	5	5	5	5	5	5	5	AA	B
	Q12	10076309	TRANSISTOR	2SA1729S-TD	1	1	1	1	1	1	1	AC	B
	Q4	10076310	TRANSISTOR	2SA2012-TD	1	1	1	1	1	1	1	AC	B
	Q6-9	10076311	TRANSISTOR	2SD1626-TD	4	4	4	4	4	4	4	AC	B
N	Q1	10091501	TRANSISTOR	FSS134-TL	1	1	1	1	1	1	1	AQ	B
	Q5	10074017	TRANSISTOR	XP162A12A6PR	1	1	1	1	1	1	1	AF	B
	Q11	25902697	TRANSISTOR/DIGITAL	DTC114EETL	1	1	1	1	1	1	1	AA	B
	Q2,3,10	22592674	TRANSISTOR/DIGITAL	DTC114YETL	3	3	3	3	3	3	3	AA	B
	L1	10074018	INDUCTOR	CDRH104R220NC-T	1	1	1	1	1	1	1	AG	B
	X6	10074020	X' TAL/CHIP	MA406-8.25M-10P	1	1	1	1	1	1	1	AM	A
	X1	10074503	CERALOCK/CHIP	CSTCE8M00G55-R0	1	1	1	1	1	1	1	AB	A
N	X5	10111104	CERALOCK/CHIP	CSTCE10M0G55-R0	1	1	1	1	1	1	1	AC	A
N	X3	10111105	CERALOCK/CHIP	CSTCE16M0V53-R0	1	1	1	1	1	1	1	AC	A
N	X2	10111106	CERALOCK/CHIP	CSTCW20M0X53-R0.	1	1	1	1	1	1	1	AC	A

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
	FU2,3	30008079	FUSE/CHIP	430.500	2	2	2	2	2	2	2	AD	A
	CN15	10074027	CONNECTOR	AXN380130P	1	1	1	1	1	1	1	BE	C
	CN9	77401603	CONNECTOR	B2B-PH-SM3-TB	1	1	1	1	1	1	1	AC	C
	CN25	35019394	CONNECTOR	B2B-ZR-SM3-TF	1	1	1	1	1	1	1	AB	C
	CN11-14	35021809	CONNECTOR	B3B-PH-SM3-TB	4	4	4	4	4	4	4	AC	C
	CN22	35021340	CONNECTOR	B4B-ZR-SM3-TF	1	1	1	1	1	1	1	AB	C
	CN5	35018645	CONNECTOR	B5B-PH-SM3-TB	1	1	1	1	1	1	1	AC	C
	CN17	35017546	CONNECTOR	B5B-ZR-SM3-TF	1	1	1	1	1	1	1	AC	C
N	CN18	35019765	CONNECTOR	B12B-ZR-SM3-TF	1	1	1	1	1	1	1	AD	C
N	CN3	10105405	CONNECTOR	HFW25S-2STE1	1	1	1	1	1	1	1	AK	C
N	CN20	10105403	CONNECTOR	62451-022L	1	1	1	1	1	1	1	BL	C
	SW1	10004466	SLIDE SWITCH	SSSS823-B-3B	1	1	1	1	1	1	1	AF	C
N	CN4	69302476	CONNECTOR	B7B-PH-SM3-TB	1	1	1	1	1	1	1	AF	C
N	IC37	10005307	IC/CMOS	SN74AHC1G08DCKR	1	1	1	1	1	1	1	AA	A
	R177		RESISTOR/CHIP	RC1608-330-J-T	1	1	1	1	1	1	1		X
	R131		RESISTOR/CHIP	RC1608-681-J-T	1	1	1	1	1	1	1		X
	R186		RESISTOR/CHIP	RC1608-1802-F-T	1	1	1	1	1	1	1		X
	C23,31,36,37		CAPACITOR/CHIP	GRM1882C1H271JA01D	4	4	4	4	4	4	4		X
N	C32,89	10047458	CAPACITOR/ELECTROLYTIC	RV3-6V331MF80-R	2	2	2	2	2	2	2	AB	C
	C148		CAPACITOR/CHIP	GRM1882C1H102JA01D	1	1	1	1	1	1	1		X
	X4	10094206	X' TAL/CHIP	C-002RX-8.3/10	1	1	1	1	1	1	1	AF	A
N	R36	10108809	RESISTOR/METAL OXIDE	ERX1SJ5R6P	1	1	1	1	1	1	1	AA	C
	C38	10073679	CAPACITOR/ELECTROLYTIC	RE3-50V102M-T4	1	1	1	1	1	1	1	AD	C
	FU1	30007777	FUSE	230.600	1	1	1	1	1	1	1	AE	A
	CN6	35005846	CONNECTOR	53253-0210	1	1	1	1	1	1	1	AA	C
	CN19	35017728	CONNECTOR	B14B-PHDSS	1	1	1	1	1	1	1	AB	C
	CN21	35802364	CONNECTOR	B30B-PHDSS	1	1	1	1	1	1	1	AE	C
N	CN8	35018288	CONNECTOR	B3P-VH	1	1	1	1	1	1	1	AB	C
N	CN1,2	10105399	CONNECTOR	HLEM25S-1	2	2	2	2	2	2	2	AC	C
	CN7	10073680	CONNECTOR	IMSA-9202B-1-03P-T	1	1	1	1	1	1	1	AA	C
	SP1	32402089	BUZZER	PKM22EPT-2001	1	1	1	1	1	1	1	AE	C
	SW2	10073681	SLIDE SWITCH	SSSU141500	1	1	1	1	1	1	1	AJ	C
N		10105400	SOCKET	IMSA-9206H-T	1	1	1	1	1	1	1	AA	C
			SCREW	S-PAMA-2X6ZC	2	2	2	2	2	2	2		X
	2. LCD block												
N	**2**	10104449	CASE/LCD-F E468	RJE500319-1	1	1	1	1	1	1	1	BD	C
N	**3**	10104450	CASE/LCD-R E468	RJE500320-1	1	1	1	1	1	1	1	BD	C
N	**4**	10104455	SHEET/DISPLAY	RJE500390-1	1	1	1	1	1	1	1	AS	C
N	**5**	10104452	SLIDE KNOB E468	RJE500322-1	1	1	1	1	1	1	1	AB	C
N	**6**	10113417	LCD UNIT	KCG057OV1DB-G00	1	1	1	1	1	1	1	EA	A
N	**7**	10104448	INVERTER/CFL	PS2-70052-001	1	1	1	1	1	1	1	CL	A
	8	10042373	HINGE/HEXA TORO	KH62B075L	1	1	1	1	1	1	1	BT	C
N	**9**	10104461	PCB ASSY/E468-E2-CL	RJE500425*1	1	1	1	1	1	1	1	BA	A
	R2-9,12-15		RESISTOR/CHIP	MCR03EZHJ470	12	12	12	12	12	12	12		X
	R10		RESISTOR/CHIP	MCR03EZHJ153	1	1	1	1	1	1	1		X
	R11		RESISTOR/CHIP	MCR03EZHJ183	1	1	1	1	1	1	1		X
	R16,TH1		RESISTOR/CHIP	MCR03EZHJ000	2	2	2	2	2	2	2		X
N	CN1	10069249	CONNECTOR	S12B-ZR-SM3A-TF	1	1	1	1	1	1	1	AD	C
N	CN2	79300427	CONNECTOR	SFV20R-1STE1	1	1	1	1	1	1	1	AC	C
N	CN3	35020199	CONNECTOR	S5B-ZR-SM3A-TF	1	1	1	1	1	1	1	AC	C
N	VR1	10105428	SLIDE VOLUME	RS15T11AA000	1	1	1	1	1	1	1	AD	C
N	**10**	10104456	CABLE/FFC JOINER E468	RJE500391-1	1	1	1	1	1	1	1	AE	C
N	**11**	10111055	LCD CABLE SUB ASSY	RJE500385*1	1	1	1	1	1	1	1	AT	C
N	**12**	10111056	LCD CABLE SUB ASSY	RJE500385*2	1	1	1	1	1	1	1	AK	C
N	**13**	10111057	LCD CABLE SUB ASSY	RJE500385*3	1	1	1	1	1	1	1	AG	C
			SCREW	S-PAPT-3X8ZC	4	4	4	4	4	4	4		X
N	**14**	10114076	PANEL/LCD E468	RJE500444-1	1	1	1	1	1	1	1	BT	C
N		10114077	CUSION/LCD V-E468	RJE500371-1	2	2	2	2	2	2	2	AA	X
N		10114078	CUSION/LCD H-E468	RJE500373-1	2	2	2	2	2	2	2	AA	X
			TIE/INSULOCK	T-18S	1	1	1	1	1	1	1		X
N	**15**	10114079	CHASSIS/LCD E468	RJE500482-1	1	1	1	1	1	1	1	AL	C
			SCREW	S-WBPT-3X8ZC	4	4	4	4	4	4	4		X
			SCREW	S-PAMA-3X6B	4	4	4	4	4	4	4		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
			SCREW	S-PASEMA-4X5ZC	1	1	1	1	1	1	1		X
			SCREW	S-PASEMA-3X6ZC	2	2	2	2	2	2	2		X
N		10115091	FG CABLE SUB ASSY	RJE500484*1	1	1	1	1	1	1	1	AB	C
N	**16**	10113436	HOLDER/HINGE E468	RJE500441-1	1	1	1	1	1	1	1	AD	C
~~N~~		~~10114087~~	~~SHEET/BLIND E468~~	~~RJE500443-1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~C~~
	3. Customer Display block												
N	**17**	10104422	CASE/RDP E468	RJE500324-1	1	1	1	1	1	1	1	AS	C
N	**18**	10104421	PANEL/RDP E468	RJE500323-1	1	1	1	1	1	1	1	AT	B
	19	43081401	PCB/E445A-E2-2	E340800-1	1	1	1	1	1	1	1	AF	X
	LED3-7	23201365	LED/7SEG	HDSP-5621#S02	5	5	5	5	5	5	5	AP	B
	LED1,2	24088398	LED	GL8EG42	2	2	2	2	2	2	2	AA	B
	CN2	35405193	CONNECTOR	HLW10R-2C7	1	1	1	1	1	1	1	AB	C
	CN1	35405194	CONNECTOR	HLW12R-2C7	1	1	1	1	1	1	1	AB	C
N	**20**	10104445	CABLE/C E468	E440657-12	1	1	1	1	1	1	1	AF	C
N	**21**	10114075	CABLE/D E468	E440657-13	1	1	1	1	1	1	1	AG	C
N		10115537	CUSION/A E468	RJE500539-1	1	1	1	1	1	1	1	AA	X
	4. Button block												
N	**22**	10104418	FRAME/KB E568	E140258-3	1	1	1	1	1	1	1	AG	C
	23	62467810	KETTOP/S	E311101A-4	41	41	41	41	41	41	41	AA	B
	24	62467768	KETTOP/L	E210963A-4	2	2	2	2	2	2	2	AD	B
	25	62210371	CAP/S	E311103A-1	29	29	29	29	29	29	29	AA	B
	26	62213988	CAP/L	E210964-1	2	2	2	2	2	2	2	AB	B
	27	62457250	BUTTON/1	E311792-1	1	1	1	1	1	1	1	AB	C
	28	62457260	BUTTON/2	E311792-2	1	1	1	1	1	1	1	AB	C
	29	62457270	BUTTON/3	E311792-3	1	1	1	1	1	1	1	AB	C
	30	62457280	BUTTON/4	E311792-4	1	1	1	1	1	1	1	AB	C
	31	62457290	BUTTON/6	E311792-5	1	1	1	1	1	1	1	AB	C
	32	62457300	BUTTON/7	E311792-6	1	1	1	1	1	1	1	AB	C
	33	62457310	BUTTON/8	E311792-7	1	1	1	1	1	1	1	AB	C
	34	62457320	BUTTON/9	E311792-8	1	1	1	1	1	1	1	AB	C
	35	62457330	BUTTON/0	E311792-9	1	1	1	1	1	1	1	AB	C
	36	62457340	BUTTON/.	E311792-10	1	1	1	1	1	1	1	AB	C
	37	62457350	BUTTON/00	E311792-11	1	1	1	1	1	1	1	AB	C
	38	62457360	BUTTON/5	E311116-4	1	1	1	1	1	1	1	AB	C
	39	62480990	RUBBER/CONTACT	E411877A-1	43	43	43	43	43	43	43	AA	B
	40	62473830	SPRING/COIL	E411104A-1	2	2	2	2	2	2	2	AA	B
			SCREW	S-WBPT-3X8ZC	20	20	20	20	20	20	20		X
	41	62473837	SPRING/COIL	E411104A-2	2	2	2	2	2	2	2	AA	B
	42	62481751	FPC/E545	E240508A-1	1	1	1	1	1	1	1	BI	B
	43	62481313	SHEET/COMMON	E240509-1	1	1	1	1	1	1	1	AX	B
	44	62481314	SPACER/E545	E240510-1	1	1	1	1	1	1	1	AG	C
	45	62481315	CHASSIS/KB E545A	E340740-1	1	1	1	1	1	1	1	AF	C
	46	62481316	CHASSIS/KB E545B	E340741-1	1	1	1	1	1	1	1	AH	C
	47	62481749	RUBBER/CONTACT	E240505A-1	1	1	1	1	1	1	1	BM	B
	%-		PLATE/S	E240526-6	1	1	1	1	1	1	1		X
	-		PLATE/S	E240526-7	1	1	1	1	1	1	1		X
	RECEIPT FEED		PLATE/S	E240526-61	1	1	1	1	1	1	1		X
	JOURNAL FEED		PLATE/S	E240526-62	1	1	1	1	1	1	1		X
	RECEIPT		PLATE/S	E240526-63	1	1	1	1	1	1	1		X
	#/NS		PLATE/S	E240526-66	1	1	1	1	1	1	1		X
	RF		PLATE/S	E240526-67	1	1	1	1	1	1	1		X
	C		PLATE/S	E240526-69	1	1	1	1	1	1	1		X
	OPEN		PLATE/S	E240526-71	1	1	1	1	1	1	1		X
	RC		PLATE/S	E240526-73	1	1	1	1	1	1	1		X
	CHK/TEND		PLATE/S	E240526-78	1	1	1	1	1	1	1		X
	PD		PLATE/S	E240526-83	1	1	1	1	1	1	1		X
	NEW/OLD CHK		PLATE/S	E240526-88	1	1	1	1	1	1	1		X
	CR		PLATE/S	E240526-91	1	1	1	1	1	1	1		X
	NB		PLATE/S	E240526-92	1	1	1	1	1	1	1		X
	CANCEL		PLATE/S	E240526-108	1	1	1	1	1	1	1		X
	X		PLATE/S	E240526-109	1	1	1	1	1	1	1		X
	VOID		PLATE/S	E240526-110	1	1	1	1	1	1	1		X
	YES		PLATE/S	E240526-111	1	1	1	1	1	1	1		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type				
									Europe	UK	USA		
	NO		PLATE/S	E240526-112	1	1	1	1	1	1	1		X
	PAGE DOWN		PLATE/S	E240526-113	1	1	1	1	1	1	1		X
	PAGE UP		PLATE/S	E240526-114	1	1	1	1	1	1	1		X
	HOME		PLATE/S	E240526-115	1	1	1	1	1	1	1		X
	->		PLATE/S	E240526-118	4	4	4	4	4	4	4		X
	MENU SHIFT		PLATE/S	E240526-125	1	1	1	1	1	1	1		X
	ESC/SKIP		PLATE/S	E240526-126	1	1	1	1	1	1	1		X
	SUB TOTAL		PLATE/L	E240527-21	1	1	1	1	1	1	1		X
	CA/AMT TEND		PLATE/L	E240527-23	1	1	1	1	1	1	1		X
	48	62480770	BUTTON/DETECT	E440387A-1	3	3	3	3	3	3	3	AA	B
		62481492	FG CABLE SUB ASSY	E440751*1	1	1	1	1	1	1	1	AA	C
		10031253	PLATE/MG E579	E441153-1	1	1	1	1	1	1	1	AA	C
	(49)		PCB ASSY/E568-E42		1	1	1	1	1	1	1		X
			(This PCB is included to the Main PCB/E468-1.)										
		24088401	CONNECTOR	HLW4R-2C7	1	1	1	1	1	1	1	AA	C
N		10082500	PUSH SW	ABU811261S	3	3	3	3	3	3	3	AE	C
	50	55001690	MAGNET	B-MMC12	2	2	2	2	2	2	2	AN	C
	5. Power supply block												
	51	62214802	CORD/POWER	M2511	1				1			BC	C
	52	37010242	CORD/POWER	MP5004		1				1		BO	C
	53	37004283	CORD/POWER	M3203				1				AZ	C
	54	10023027	CORD/POWER	PS204-A			1				1	AR	C
N	**55**	10104443	POWER SUPPLY	SPS-468	1	1	1	1	1	1	1	DN	A
~~N~~		~~94870806~~	~~FUSE~~	~~213 3.15~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~A~~
N		10017328	FUSE	213002	1	1	1	1	1	1	1	AD	A
			CONNECTOR	CE2	1	1	1	1	1	1	1		
	6. Upper case block												
N	**56**	10104622	BUSH/RDP E468	RJE500339-1	1	1	1	1	1	1	1	AC	C
			SCREW	S-WBPT-3X20ZC	2	2	2	2	2	2	2		X
			SCREW	S-WBPT-3X8ZC	19	19	19	19	19	19	19		X
N		10104383	SHEET/INSULATOR	RJE500396-1	1	1	1	1	1	1	1	AB	C
N	**57**	10104384	KEYTOP/F	RJE500397-1	1	1	1	1	1	1	1	AE	B
N	**58**	10104386	RUBBER/CONTACT	RJE500398-1	1	1	1	1	1	1	1	AI	B
N	**59**	10115540	CHASSIS/MODE KEY	RJE500481-1	1	1	1	1	1	1	1	BL	C
N	**60**	10104388	CASE/DISPLAY	RJE500406-1	1	1	1	1	1	1	1	BJ	C
N	**61**	10111059	KEY CABLE SUB ASSY	RJE500388*1	1	1	1	1	1	1	1	BN	C
N	**62**	10111063	KEY CABLE SUB ASSY	RJE500388*2	1	1	1	1	1	1	1	BF	C
N	**63**	10104390	COVER/HINGE	RJE500429-1	1	1	1	1	1	1	1	AO	C
N	**64**	10113481	CASE/UPPER E568	RJE500442-2	1	1	1	1	1	1	1	AV	C
			SCREW	S-PASEMA-3X6ZC	2	2	2	2	2	2	2		X
			SCREW	S-PASEMA-4X5ZC	3	3	3	3	3	3	3		X
			SCREW	S-PAMA-3X6B	2	2	2	2	2	2	2		X
~~N~~	~~65~~	~~10114133~~	~~COVER/MODE KEY~~	~~RJE500332-4~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~C~~
N	**65**	10121163	COVER/MODE KEY	RJE500440-4	1	1	1	1	1	1	1	BC	C
N		10115091	FG CABLE SUB ASSY	RJE500484*1	1	1	1	1	1	1	1	AB	C
N		10115092	FG CABLE SUB ASSY	RJE500484*2	1	1	1	1	1	1	1	AC	C
N		10115541	SHEET/BLIND	RJE500514-1	1	1	1	1	1	1	1	AG	C
N	**66**	10115546	PLATE/L HOOK	RJE500523-1	1	1	1	1	1	1	1	AP	C
N	**67**	10115548	PLATE/R HOOK	RJE500524-1	1	1	1	1	1	1	1	AS	C
~~N~~	~~68~~	~~10114419~~	~~COVER/PRINTER~~	~~RJE500325-1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~C~~
N	**60**	10104419	COVER/PRINTER	RJE500325-1	1	1	1	1	1	1	1	BJ	C
~~N~~	~~69~~	~~10114420~~	~~COVER/JOURNAL~~	~~RJE500326-1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~	~~1~~		~~C~~
N	**69**	10104420	COVER/JOURNAL	RJE500326-1	1	1	1	1	1	1	1	AE	C
N	**70**	10104349	COVER/SHEET	RJE500395-1	1	1	1	1	1	1	1	AO	C
N	**71**	10115524	CYLINDER LOCK ASSY	E341056*2	1	1	1	1	1	1	1	AI	B
	72	62465000	KEY SET/PRINTER COVER	E412062*1	1	1	1	1	1	1	1	AG	B
			SCREW	S-BDMA-3X5NI	4	4	4	4	4	4	4		X
			SCREW	S-BDMA-4X12NI	1	1	1	1	1	1	1		X
			SCREW	S-BDMA-4X10B	1	1	1	1	1	1	1		X
N	**73**	10104365	SHEET/MODE MENU	RJE500350-2	1	1	1	1	1	1	1	AA	B
N	**74**	10104364	SHEET/SPACE MENU	RJE500350-1	1	1	1	1	1	1	1	AA	B
N	**75**	10115544	CABLE/FFC JOINER	E440657-14	1	1	1	1	1	1	1	AB	C
	7. Lower case block												
N	**76**	10104438	CASE/LOWER E468	RJE500338-1	1	1	1	1	1	1	1	BV	C
N	**77**	10104428	MAIN CHASSIS E468	RJE500304-1	1	1	1	1	1	1	1	BK	C
N	**78**	10104436	SUB CHASSIS E468	RJE500305-1	1	1	1	1	1	1	1	BD	C
	79	10054340	INLINE CABLE SUB ASSY	E440720*3	1	1	1	1	1	1	1	AE	C

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	Rank
					Europe	UK	USA/ Canada	Australia	Other Countries				
									Plug Type				
									Europe	UK	USA		
N		1008 5156	DRAWER CABLE SUB ASSY	E440737*1	1	1	1	1	1	1	1		C
N	**80**	1010 4437	COVER/CF E468	RJE500311-1	1	1	1	1	1	1	1		C
N	**81**	1010 4444	CABLE/FFC JOINER BE468	E440657-11	1	1	1	1	1	1	1		C
N	**82**	1010 4429	CHASSIS/POWER SUPPLY	RJE500404-1	1	1	1	1	1	1	1		C
N	**83**	1010 4440	ARC CABLE SUB ASSY	RJE500386*1	1	1	1	1	1	1	1		C
N	**84**	1010 4439	COVER/POWER SWITCH	RJE500340-1	1	1	1	1	1	1	1		C
N		6247 2318	CABLE/FG	E310997-26	1	1	1	1	1	1	1		X
N	**85**	1011 4111	CHASSIS/GROUND	RJE500453-1	1	1	1	1	1	1	1		C
N	**86**	1011 4112	PLATE/CORD	RJE500448-1	1	1	1	1	1	1	1		C
N	**87**	1011 4113	CHASSIS/CONNECTOR	RJE500479-1	1	1	1	1	1	1	1		C
	88	6221 3892	ROLLER/E233	E411377-1	2	2	2	2	2	2	2	AA	B
			SCREW	N-HXT3-4ZC	2	2	2	2	2	2	2		X
			SCREW	S-WBPT-3X8ZC	11	11	11	11	11	11	11		X
			TIE/INSULOCK	T-18S	2	1	1	1	1	1	1		X
			SCREW	S-PASLMA-3X5ZC	6	6	6	6	6	6	6		X
			SCREW	S-PASLMA-4X5ZC	6	6	6	6	6	6	6		X
			SCREW	S-PASEMA-3X6ZC	6	6	6	6	6	6	6		X
			SCREW	S-PASEMA-4X5ZC	2	2	2	2	2	2	2		X
			SCREW	S-WBPT-4X10ZC	4	4	4	4	4	4	4		X
			CLIP	CS-4U	3	3	3	3	3	3	3		X
			SCREW	S-PASLMA-4X35ZC	2	2	2	2	2	2	2		X
			SCREW	S-BDMA-6X10NI	2	2	2	2	2	2	2		X
N		1011 4221	SPACER/E468	RJE500491-1	1	1	1	1	1	1	1		C
	89	3000 7581	FASTEN TAB	23031-2	1	1	1	1	1	1	1	AA	C
N	**90**	1011 4118	NUT/E468	RJE500451-1	2	2	2	2	2	2	2		C
			NUT	NO.4-40UNC(ZC)	2	2	2	2	2	2	2		X
			SCREW	JFS-4S-B1WM	2	2	2	2	2	2	2		X
N	**91**	1011 5094	COM CABLE SUB ASSY	RJE500478*1	1	1	1	1	1	1	1		C
N		1011 4126	LABEL/COM A-E468	RJE500494-1	1	1	1	1	1	1	1		X
N		1011 4127	LABEL/COM B-E468	RJE500495-1	1	1	1	1	1	1	1		X
N		1011 4128	LABEL/ARC E468	RJE500496-1	1	1	1	1	1	1	1		X
N	**92**	1010 4345	COVER/CONNECTOR	RJE500328-1	1	1	1	1	1	1	1		C
N		1011 4090	COVER/SWITCH	RJE500492-1	1	1	1	1	1	1	1		C
N		1011 5526	RUBBER/PAD	RJE500485-1	4	4	4	4	4	4	4		C
	8. PRINTER BLOCK												
N	**93**	9487 0779	FRAME UNIT/JOURNAL	1232726	1	1	1	1	1	1	1	CX	C
N	**94**	9487 0781	BELT/PAPER TAKE-UP	1231986	1	1	1	1	1	1	1	AD	B
N	**95**	9487 0780	SHAFT/PAPER ROLLING	1232732	1	1	1	1	1	1	1	AQ	B
N	**96**	9487 0773	FRAME UNIT/RECEIPT	1232684	1	1	1	1	1	1	1	CY	C
		* 96 There are 2 versions of the receipt printer. Please refer to the service bulletin ECR-543 for the details.											
N	**97**	9487 0774	SCREW	1018232	1	1	1	1	1	1	1	AA	X
N	**98**	9487 0775	CUTTER UNIT	1236376	1	1	1	1	1	1	1	BS	A
N	**99**	9487 0776	SCREW	1073844	2	2	2	2	2	2	2	AB	X
N	**100**	9487 0777	CUTTER/FIXED	1231681	1	1	1	1	1	1	1	BK	A
N	**101**	9487 0778	SPRING	1231999	1	1	1	1	1	1	1	AA	B
N	**102**	1011 4233	CHASSIS/PR L	RJE500466-1	1	1	1	1	1	1	1		C
N	**103**	1011 4234	CHASSIS/PR R	RJE500470-1	1	1	1	1	1	1	1		C
N	**104**	1011 4235	CHASSIS/PR C	RJE500474-1	1	1	1	1	1	1	1		C
N	**105**	1011 4236	CHASSIS/PR MOUNT	RJE500446-1	2	2	2	2	2	2	2		C
N	**106**	1011 4237	SHAFT/E468	RJE500450-1	2	2	2	2	2	2	2		C
			SCREW	S-PASLMA-3X5ZC	4	4	4	4	4	4	4		X
			SCREW	S-PAMA-3X5ZC	6	6	6	6	6	6	6		X
N	**107**	1011 4238	E-RING	R-ER-3TCBL	4	4	4	4	4	4	4		C
N	**108**	1011 3437	COVER/PR PROTECT	RJE500467-1	1	1	1	1	1	1	1		C
N	**109**	1010 4346	COVER/CUTTER	RJE500329-1	1	1	1	1	1	1	1		C
	9. CLERK SWITCH CIRCUIT												
N	**110**	1010 4389	PCB ASSY/E468-E6	RJE500416*1	1	1	1	1	1	1	1		B
	IC1,2,5	1000 5662	IC/CMOS	SN74LV374APWR	3	3	3	3	3	3	3	AF	A
	IC3,4,6	2112 0823	IC	BA12003BF-E2	3	3	3	3	3	3	3	AF	A
	R1,2,7		RESISTOR/CHIP	MCR03EZHJ000	3	3	3	3	3	3	3		X
	R11-13,15-21, 24-30		RESISTOR/CHIP	MCR03EZHJ101	17	17	17	17	17	17	17		X
	R3,5,8,10,22		RESISTOR/CHIP	MCR03EZHJ103	5	5	5	5	5	5	5		X
	R4,6,9,14,23		RESISTOR/CHIP	MCR03EZHJ471	5	5	5	5	5	5	5		X

N	Item	Code No.	Parts Name	Specification	Q'ty							Price Code	R
					Europe	UK	USA/ Canada	Australia	Other Countries Plug Type Europe	Other Countries Plug Type UK	Other Countries Plug Type USA		
	RM1-5	27753288	RESISTOR/CHIP NETWORK	MNR14E0ABJ103	5	5	5	5	5	5	5	AA	C
	C2,4,6		CAPACITOR/CHIP	GRM1882C1H101JA01D	3	3	3	3	3	3	3		X
	C1,3,5		CAPACITOR/CHIP	GRM188B11E104KA01D	3	3	3	3	3	3	3		X
	C7	28073647	CAPACITOR/ELECTROLYTIC	RV2-16V101MS-R	1	1	1	1	1	1	1	AA	C
	D1-15	10009218	DIODE/CHIP	1SS400TE61	15	15	15	15	15	15	15	AA	B
	Q1-5	22501603	TRANSISTOR/CHIP	2SB1182TLQR	5	5	5	5	5	5	5	AC	B
	CN2	35405184	CONNECTOR	HFW10S-2STE1	1	1	1	1	1	1	1	AB	C
	CN1	35405185	CONNECTOR	HFW12S-2STE1	1	1	1	1	1	1	1	AB	C
N	CN6	10105680	CONNECTOR	HFW4R-2STE1	1	1	1	1	1	1	1	AF	C
	CN5	35405190	CONNECTOR	SFW27R-5STE1	1	1	1	1	1	1	1	AE	C
	SW1-10	34121029	SWITCH/TACT	SKHHAL	10	10	10	10	10	10	10	AA	B
	CN3	35017728	CONNECTOR	B14B-PHDSS	1	1	1	1	1	1	1	AB	C
	CN4	35802364	CONNECTOR	B30B-PHDSS	1	1	1	1	1	1	1	AE	C
	10. Connector board												
N	**111**	10105423	PCB/E468-CNB1	RJE500415-1	1	1	1	1	1	1	1	AD	C
N	CN1	10105422	CONNECTOR	HLW25R-2C7	1	1	1	1	1	1	1	AE	C
	CN2-4	30007917	CONNECTOR	ID9P33E4GX28	3	3	3	3	3	3	3	AK	C
	11. ARCNET In-line board												
N	**112**	10105420	PCB/E468-ARC	RJE500412-1	1	1	1	1	1	1	1	AF	C
N	IC1	10105419	IC	HYC2000	1	1	1	1	1	1	1	BV	A
	R5	10074510	REGISTOR/CHIP	RD25SM10-6101J	1	1	1	1	1	1	1	AA	X
N	R3,4	10082973	REGISTOR/CHIP	RD25SM10-6154J	1	1	1	1	1	1	1	AA	X
N	C1	10073686	CAPACITOR	ECQ-V1H104JZW	1	1	1	1	1	1	1	AD	X
	C2	10073688	CAPACITOR/ELECTROLYTIC	RE3-16V470M	1	1	1	1	1	1	1	AA	C
	C3,4	10074512	CAPACITOR	DEA1X3A180JC1B	2	2	2	2	2	2	2	AA	X
N	CN2,3	35020073	CONNECTOR	TM5RJ3-88	2	2	2	2	2	2	2	AT	C
N	SW1	10105421	SLIDE SWITCH	SSSU111400	1	1	1	1	1	1	1	AI	C
	CN1	35016307	CONNECTOR	S5B-PH-K-S	1	1	1	1	1	1	1	AA	C
	12. Other												
N	**113**	10103367	BATTERY/LITHIUM	VL3032/SGB	1	1	1	1	1	1	1	CQ	A
		10029671	SCREW/DRAWER	E441149-1	2	2	2	2	2	2	2	AF	C

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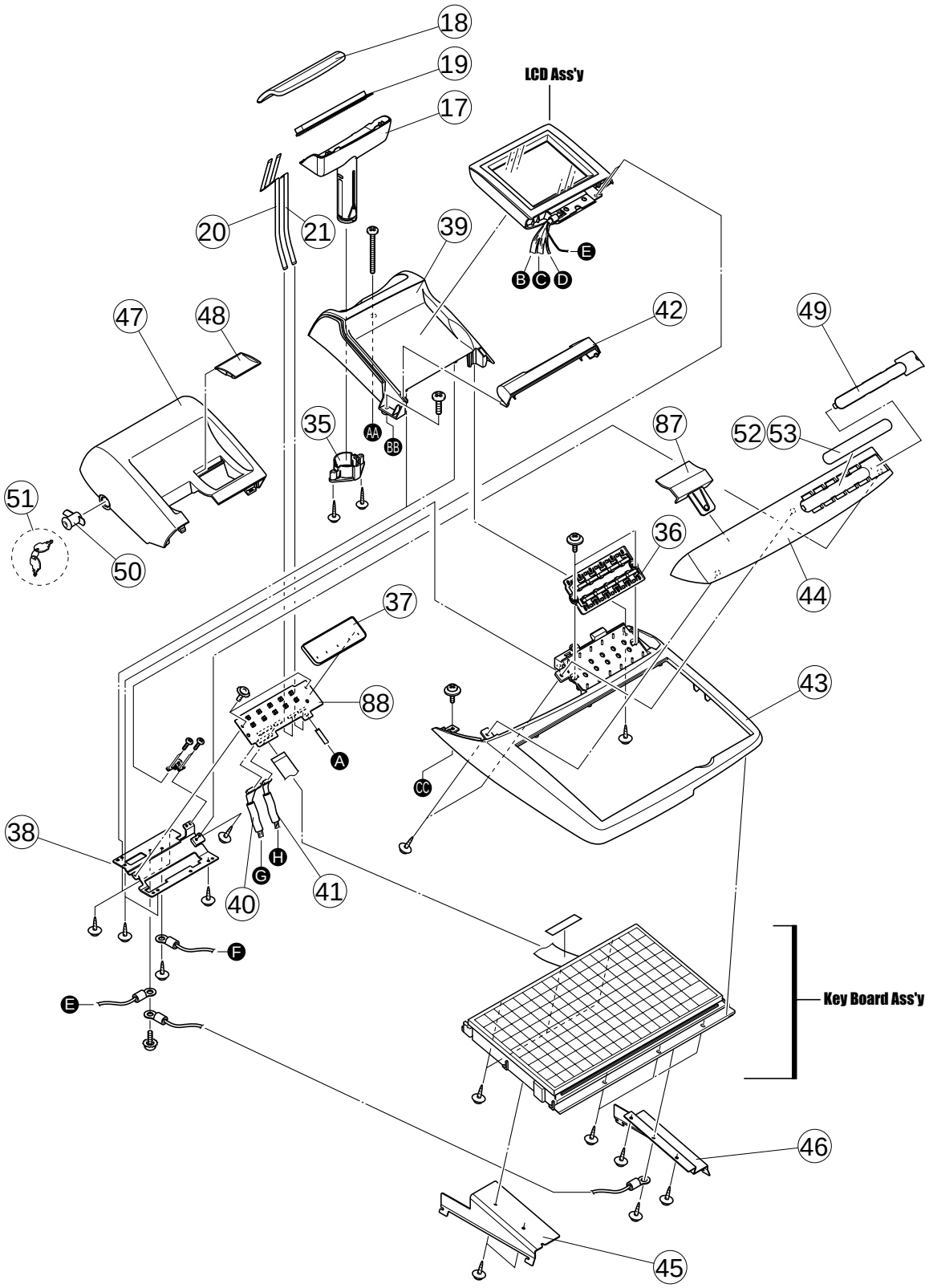
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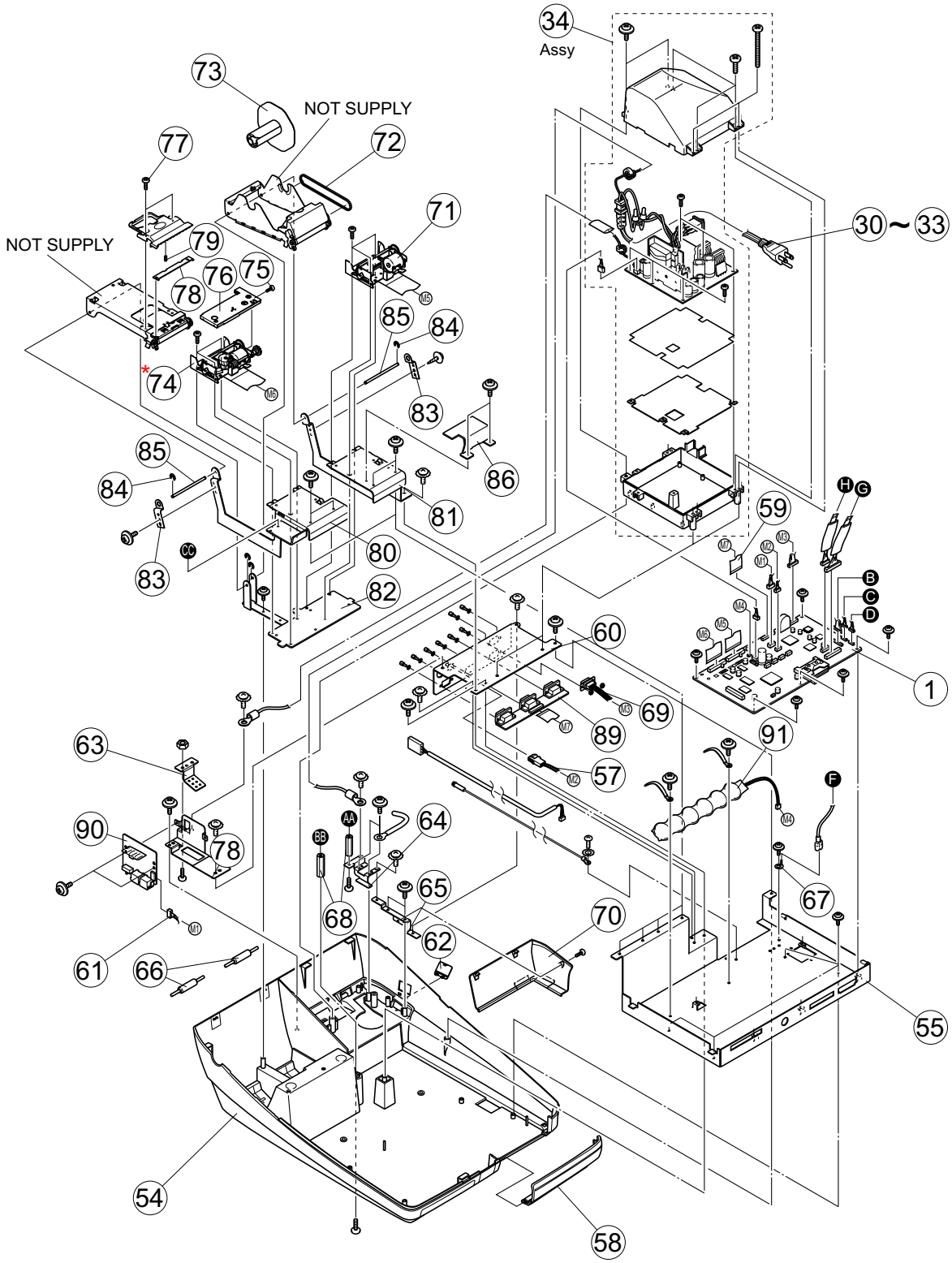
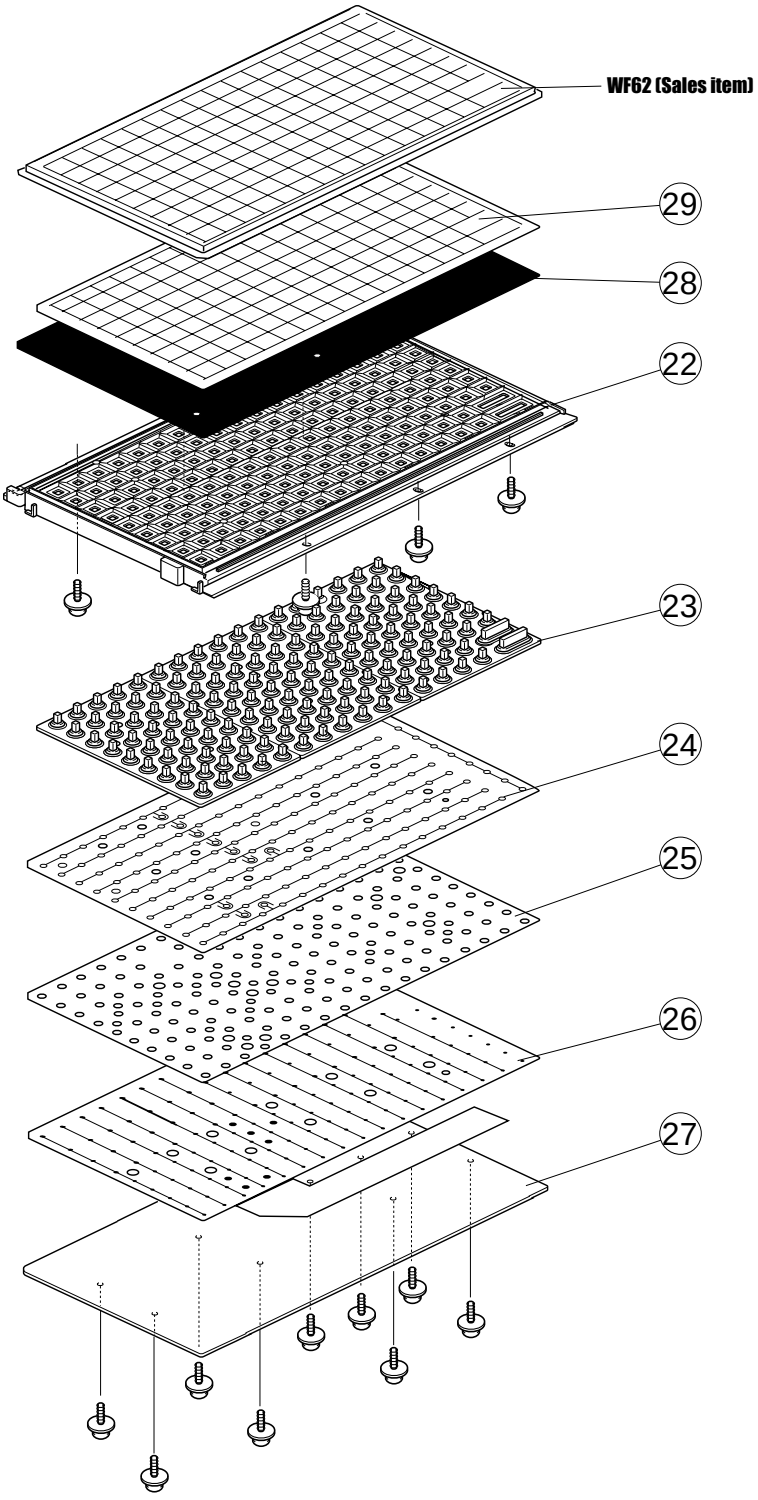


* 74 There are 2 versions of the receipt printer. Please refer to the service bulletin ECR-543 for the details.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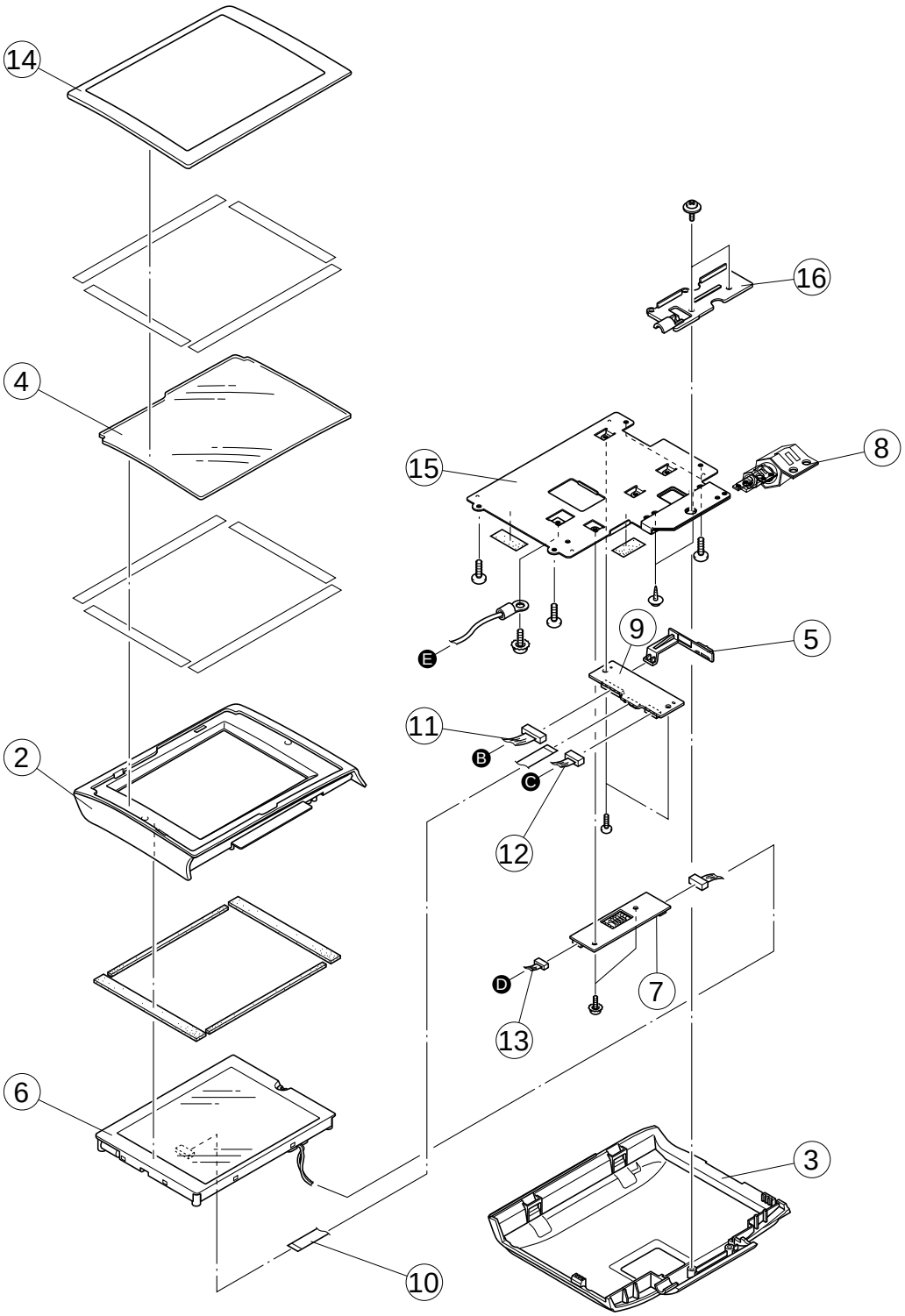
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TE-8500F

N	Item	Code No.	Parts Name	Specification	Q'ty UK	Q'ty USA/ Canada	Price Code	Rank
	1. MAIN PCB BLOCK							
N	**1**	10104430	PCB ASSY/E468-1	RJE500408*1	1	1	EJ	A
N	IC33	10100136	LSI	HD6417706F133	1	1	CK	A
N	IC21	10111217	LSI	UPD784215AGC8028EU	1	1	BN	A
	IC10	10073986	LSI	UPD65945GJ-P16-JEU	1	1	BU	A
N	IC19	10103458	LSI	MBM29DL324BE90TNAA	1	1	BW	A
N	IC18	10100310	LSI	MD56V62160E-10TAB0	1	1	BU	A
N	IC13	10100311	LSI	S1D13705F00A100	1	1	CF	A
	IC11	10006024	LSI	COM20019ILJP	1	1	CF	A
	IC35,36	21120788	IC	L6219DS	2	2	BC	A
N	IC20	10105416	IC/CMOS	SN74AHCT08PWR	1	1	AC	A
	IC16	10003984	IC/CMOS	SN74LV00APWR	1	1	AB	A
N	IC32	10105417	IC/CMOS	SN74LV07APWR	1	1	AA	A
	IC31,34	10005659	IC/CMOS	SN74LV08APWR	2	2	AB	A
	IC15	10007179	IC/CMOS	SN74LV10APWR	1	1	AC	A
	IC8	21056580	IC/CMOS	SN74LV14APWR	1	1	AC	A
	IC9	10005721	IC/CMOS	SN74LV244APWR	1	1	AF	A
N	IC27,28	10105407	IC/CMOS	SN74LVC244APWR	2	2	AA	A
N	IC29,30	10105408	IC/CMOS	SN74LVC245APWR	2	2	AA	A
N	IC22	10105409	IC/CMOS	SN74LVU04APWR	1	1	AD	A
	IC6	10074001	IC/MOS	XC6201P192MR	1	1	AC	A
	IC5	10074002	IC/MOS	XC62EP1902MR	1	1	AC	A
	IC4	10074003	IC/MOS	XC6365A363MR	1	1	AG	A
	IC17	21120763	IC/RESET	M51957BFP-T1	1	1	AJ	A
	IC14	10074005	IC	SN751178NSR	1	1	BG	A
	IC1-3	21120820	IC	HIN211CA-T	3	3	AT	A
	IC7,39	21120821	IC	BA10393F-E2	2	2	AB	A
	R1-9,51,53,86,87, 163,-166,168,170, 176		RESISTOR/CHIP	RC1608-000-T	20	20		X
	R128,130,137,138,		RESISTOR/CHIP	RC1608-100-J-T	4	4		X
	R84,85,99,109, 152,153,155,156		RESISTOR/CHIP	RC1608-101-J-T	8	8		X
	R18,24,30,34,68, 71,113,114,129, 136,142,162		RESISTOR/CHIP	RC1608-102-J-T	12	12		X
	R10,16,17,19-22, 25-27,43,44,89,92, 97,110,127,133, 141,146,150,151, 154,157-160,169, 182		RESISTOR/CHIP	RC1608-103-J-T	29	29		X
	R95,140		RESISTOR/CHIP	RC1608-104-J-T	2	2		X
	R67,183		RESISTOR/CHIP	RC1608-105-J-T	2	2		X
	R47,48,54,55,59, 60,64,65		RESISTOR/CHIP	RC1608-123-J-T	8	8		X
	R46,52,58,63		RESISTOR/CHIP	RC1608-202-J-T	4	4		X
	R12,15,23,31,35, 134,135		RESISTOR/CHIP	RC1608-203-J-T	7	7		X
	R112		RESISTOR/CHIP	RC1608-222-J-T	1	1		X
	R13		RESISTOR/CHIP	RC1608-331-J-T	1	1		X
	R115-126,184		RESISTOR/CHIP	RC1608-332-J-T	13	13		X
	R73-83,90,91,96, 108,132		RESISTOR/CHIP	RC1608-470-J-T	16	16		X
	R42,45,50,57,62, 94,98,111,139, 144,167,174		RESISTOR/CHIP	RC1608-472-J-T	12	12		X
	R49,56,61,66,72, 88,143,149,178		RESISTOR/CHIP	RC1608-563-J-T	9	9		X
	R103,107		RESISTOR/CHIP	RC210-271-J-T	2	2		X
	R28,29,32,34		RESISTOR/CHIP	RC633-3R6-J-T	4	4		X
	R40,100,105		RESISTOR/CHIP	RC1608-1002-F-T	3	3		X
	R101,104		RESISTOR/CHIP	RC1608-1003-F-T	2	2		X

N	Item	Code No.	Parts Name	Specification	Q'ty		Price Code	Rank
					UK	USA/ Canada		
	R145		RESISTOR/CHIP	RC1608-3001-F-T	1	1		X
	R147,185		RESISTOR/CHIP	RC1608-4702-F-T	2	2		X
	R41		RESISTOR/CHIP	RC1608-5602-F-T	1	1		X
	R14		RESISTOR/CHIP	RC315-15R0-F-T	1	1		X
N	RM19,20	26601173	RESISTOR/CHIP NETWORK	RAC1608-0004DJT	2	2	AA	C
	RM1,2,5,9,10,18, 29-33,44,51-53,57, 58,60,61,64,66,68, 70,75-82,90,92-94, 96,110,111	26601156	RESISTOR/CHIP NETWORK	RAC1608-1034DJT	38	38	AA	C
N	RM59,102-104	26601160	RESISTOR/CHIP NETWORK	RAC1608-1044DJT	4	4	AA	C
N	RM8,13-17,25-28, 34-38,41-43,45-48	27957901	RESISTOR/CHIP NETWORK	RAC1608-3304DJT	22	22	AA	C
	RM23,24,39,40,71-74,83-86	10005641	RESISTOR/CHIP NETWORK	RAC1608-4704DJT	12	12	AA	C
	RM3,4,6,7,21,22, 54-56,69,87-89,91, 95,107	26523047	RESISTOR/CHIP NETWORK	RAC1608-5634DJT	16	16	AA	C
	C50,51		CAPACITOR/CHIP	GRM1882C1H9R0DZ01D	2	2		X
	C15-19,21,24-26, 48,58,84,90,99, 100,123,127,133, 134		CAPACITOR/CHIP	GRM1882C1H101JA01D	19	19		X
	C80,81		CAPACITOR/CHIP	GRM1882C1H150JA01D	2	2		X
	C13,14,49,147		CAPACITOR/CHIP	GRM188B10J105KA01D	4	4		X
	C126		CAPACITOR/CHIP	GRM188B11A334KA61D	1	1		X
	C1,3,4,6,20,22,27, 40,46,52,55,71-77, 82,86,91-93,95,97, 101-122,125,128-132,135-146,154		CAPACITOR/CHIP	GRM188B11E104KA01D	66	66		X
	C94,96,98		CAPACITOR/CHIP	GRM21BB11H104KA01L	3	3		X
	C124		CAPACITOR/CHIP	GRM188B11E473KA01D	1	1		X
	C28,29,33,34		CAPACITOR/CHIP	GRM188B11H472KA01D	4	4		X
N	CM1-4	28456609	CAPACITOR/CHIP MODULE	CAF13CG101K50AT	4	4	AA	C
	C12	77201631	CAPACITOR/CHIP TANTALUM	SK4-0J106M-RA	1	1	AA	C
	C10,39,79	28953056	CAPACITOR/CHIP TANTALUM	SK4-1A107M-RD0	3	3	AE	C
	C11	28952541	CAPACITOR/CHIP TANTALUM	SK5-1A106M-RA	1	1	AA	C
	C47	10074012	CAPACITOR/ELECTROLYTIC	RV-16V471MH10-R	1	1	AC	C
	C30,35	28077818	CAPACITOR/ELECTROLYTIC	RV-35V101MG10-R	2	2	AB	C
N	C2,5	28077869	CAPACITOR/ELECTROLYTIC	RV2-16V100MB55-R	2	2	AA	C
	C9,41,45,54,67,78	28073647	CAPACITOR/ELECTROLYTIC	RV2-16V101MS-R	6	6	AA	C
	C7,87	28077106	CAPACITOR/ELECTROLYTIC	RV2-35V100M-R	2	2	AA	C
	C88	28073626	CAPACITOR/ELECTROLYTIC	RV3-10V221MF80-R	1	1	AB	C
	D22,24,26,28	23902058	DIODE/CHIP	1SR154-400TE25	4	4	AB	B
	D16-19	30007959	DIODE/CHIP	1SS376TE-17	4	4	AA	B
	D14,21,23,25,27	10009218	DIODE/CHIP	1SS400TE61	5	5	AA	B
	D15	23153115	DIODE/CHIP ZENER	PTZTE-255.1B	1	1	AB	B
	D1-9,11	28953130	DIODE/CHIP	RB051L-40TE25	10	10	AC	B
	D10,12,13,29,30	23903042	DIODE/CHIP	RB521S-30TE61	5	5	AA	B
	Q12	10076309	TRANSISTOR	2SA1729S-TD	1	1	AC	B
	Q4	10076310	TRANSISTOR	2SA2012-TD	1	1	AC	B
	Q6-9	10076311	TRANSISTOR	2SD1626-TD	4	4	AC	B
N	Q1	10091501	TRANSISTOR	FSS134-TL	1	1	AQ	B
	Q5	10074017	TRANSISTOR	XP162A12A6PR	1	1	AF	B
	Q11	25902697	TRANSISTOR/DIGITAL	DTC114EETL	1	1	AA	B
	Q2,3,10	22592674	TRANSISTOR/DIGITAL	DTC114YETL	3	3	AA	B
	L1	10074018	INDUCTOR	CDRH104R220NC-T	1	1	AG	B
	X6	10074020	X' TAL/CHIP	MA406-8.25M-10P	1	1	AM	A
	X1	10074503	CERALOCK/CHIP	CSTCE8M00G55-R0	1	1	AB	A
N	X5	10111104	CERALOCK/CHIP	CSTCE10M0G55-R0	1	1	AC	A
N	X3	10111105	CERALOCK/CHIP	CSTCE16M0V53-R0	1	1	AC	A
N	X2	10111106	CERALOCK/CHIP	CSTCW20M0X53-R0.	1	1	AC	A
	FU2,3	30008079	FUSE/CHIP	430.500	2	2	AD	A

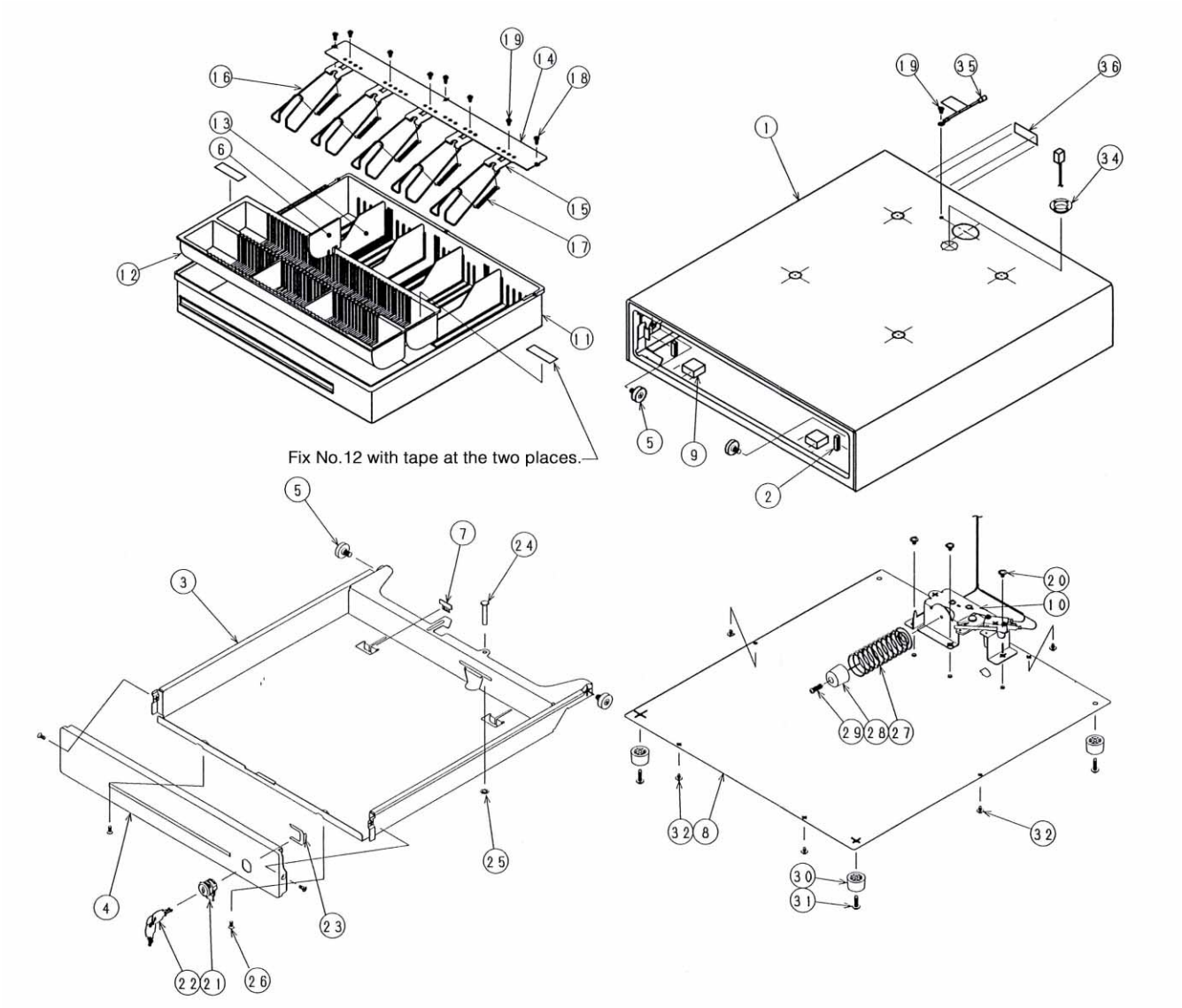
N	Item	Code No.	Parts Name	Specification	Q'ty		Price Code	Rank
					UK	USA/ Canada		
	CN15	10074027	CONNECTOR	AXN380130P	1	1	BE	C
	CN9	77401603	CONNECTOR	B2B-PH-SM3-TB	1	1	AC	C
	CN25	35019394	CONNECTOR	B2B-ZR-SM3-TF	1	1	AB	C
	CN11-14	35021809	CONNECTOR	B3B-PH-SM3-TB	4	4	AC	C
	CN22	35021340	CONNECTOR	B4B-ZR-SM3-TF	1	1	AB	C
	CN5	35018645	CONNECTOR	B5B-PH-SM3-TB	1	1	AC	C
	CN17	35017546	CONNECTOR	B5B-ZR-SM3-TF	1	1	AC	C
N	CN18	35019765	CONNECTOR	B12B-ZR-SM3-TF	1	1	AD	C
N	CN3	10105405	CONNECTOR	HFW25S-2STE1	1	1	AK	C
N	CN20	10105403	CONNECTOR	62451-022L	1	1	BL	C
	SW1	10004466	SLIDE SWITCH	SSSS823-B-3B	1	1	AF	C
N	CN4	69302476	CONNECTOR	B7B-PH-SM3-TB	1	1	AF	C
N	IC37	10005307	IC/CMOS	SN74AHC1G08DCKR	1	1	AA	A
	R177		RESISTOR/CHIP	RC1608-330-J-T	1	1		X
	R131		RESISTOR/CHIP	RC1608-681-J-T	1	1		X
	R186		RESISTOR/CHIP	RC1608-1802-F-T	1	1		X
	C23,31,36,37		CAPACITOR/CHIP	GRM1882C1H271JA01D	4	4		X
N	C32,89	10047458	CAPACITOR/ELECTROLYTIC	RV3-6V331MF80-R	2	2	AB	C
	C148		CAPACITOR/CHIP	GRM1882C1H102JA01D	1	1		X
	X4	10094206	X' TAL/CHIP	C-002RX-8.3/10	1	1	AF	A
N	R36	10108809	RESISTOR/METAL OXIDE	ERX1SJ5R6P	1	1	AA	C
	C38	10073679	CAPACITOR/ELECTROLYTIC	RE3-50V102M-T4	1	1	AD	C
	FU1	30007777	FUSE	230.600	1	1	AE	A
	CN6	35005846	CONNECTOR	53253-0210	1	1	AA	C
	CN19	35017728	CONNECTOR	B14B-PHDSS	1	1	AB	C
	CN21	35802364	CONNECTOR	B30B-PHDSS	1	1	AE	C
N	CN8	35018288	CONNECTOR	B3P-VH	1	1	AB	C
N	CN1,2	10105399	CONNECTOR	HLEM25S-1	2	2	AC	C
	CN7	10073680	CONNECTOR	IMSA-9202B-1-03P-T	1	1	AA	C
	SP1	32402089	BUZZER	PKM22EPT-2001	1	1	AE	C
	SW2	10073681	SLIDE SWITCH	SSSU141500	1	1	AJ	C
N		10105400	SOCKET	IMSA-9206H-T	1	1	AA	C
			SCREW	S-PAMA-2X6ZC	2	2		X
2. LCD block								
N	**2**	10104449	CASE/LCD-F E468	RJE500319-1	1	1	BD	C
N	**3**	10104450	CASE/LCD-R E468	RJE500320-1	1	1	BD	C
N	**4**	10104455	SHEET/DISPLAY	RJE500390-1	1	1	AS	C
N	**5**	10104452	SLIDE KNOB E468	RJE500322-1	1	1	AB	C
N	**6**	10113417	LCD UNIT	KCG057QV1DB-G00	1	1	EA	A
N	**7**	10104448	INVERTER/CFL	PS2-70052-001	1	1	CL	A
	8	10042373	HINGE/HEXA TORQ	KH62B075L	1	1	BT	C
N	**9**	10104461	PCB ASSY/E468-E2-CL	RJE500425*1	1	1	BA	A
	R2-9,12-15		RESISTOR/CHIP	MCR03EZHJ470	12	12		X
	R10		RESISTOR/CHIP	MCR03EZHJ153	1	1		X
	R11		RESISTOR/CHIP	MCR03EZHJ183	1	1		X
	R16,TH1		RESISTOR/CHIP	MCR03EZHJ000	2	2		X
N	CN1	10069249	CONNECTOR	S12B-ZR-SM3A-TF	1	1	AD	C
N	CN2	79300427	CONNECTOR	SFV20R-1STE1	1	1	AC	C
N	CN3	35020199	CONNECTOR	S5B-ZR-SM3A-TF	1	1	AC	C
N	VR1	10105428	SLIDE VOLUME	RS15T11AA000	1	1	AD	C
N	**10**	10104456	CABLE/FFC JOINER E468	RJE500391-1	1	1	AE	C
N	**11**	10111055	LCD CABLE SUB ASSY	RJE500385*1	1	1	AT	C
N	**12**	10111056	LCD CABLE SUB ASSY	RJE500385*2	1	1	AK	C
N	**13**	10111057	LCD CABLE SUB ASSY	RJE500385*3	1	1	AG	C
			SCREW	S-PAPT-3X8ZC	4	4		X
N	**14**	10114076	PANEL/LCD E468	RJE500444-1	1	1	BT	C
N		10114077	CUSION/LCD V-E468	RJE500371-1	2	2	AA	X
N		10114078	CUSION/LCD H-E468	RJE500373-1	2	2	AA	X
			TIE/INSULOCK	T-18S	1	1		X
N	**15**	10114079	CHASSIS/LCD E468	RJE500482-1	1	1	AL	C
			SCREW	S-WBPT-3X8ZC	4	4		X
			SCREW	S-PAMA-3X6B	4	4		X
			SCREW	S-PASEMA-4X5ZC	1	1		X

N	Item	Code No.	Parts Name	Specification	Q'ty UK	Q'ty USA/ Canada	Price Code	Rank
			SCREW	S-PASEMA-3X6ZC	2	2		X
N		10115091	FG CABLE SUB ASSY	RJE500484*1	1	1	AB	C
N	16	10113436	HOLDER/HINGE E468	RJE500441-1	1	1	AD	C
~~N~~		~~10114087~~	~~SHEET/BLIND E468~~	~~RJE500443-1~~	~~1~~	~~1~~		~~C~~
	3. Customer Display block							
N	17	10104422	CASE/RDP E468	RJE500324-1	1	1	AS	C
N	18	10104421	PANEL/RDP E468	RJE500323-1	1	1	AT	B
	19	43081401	PCB/E445A-E2-2	E340800-1	1	1	AF	X
	LED3-7	23201365	LED/7SEG	HDSP-5621#S02	5	5	AP	B
	LED1,2	24088398	LED	GL8EG42	2	2	AA	B
	CN2	35405193	CONNECTOR	HLW10R-2C7	1	1	AB	C
	CN1	35405194	CONNECTOR	HLW12R-2C7	1	1	AB	C
N	20	10104445	CABLE/C E468	E440657-12	1	1	AF	C
N	21	10114075	CABLE/D E468	E440657-13	1	1	AG	C
N		10115537	CUSION/A E468	RJE500539-1	1	1	AA	X
	4. Button block							
	22	62481722	FRAME/KB E577	E140283-1	1	1	BB	C
	23	10007163	RUBBER/CONTACT	E240587-1	1	1	BI	B
	24	62481723	SHEET/COMMON	E340810-1	1	1	AX	B
	25	62481724	SPACER/E577	E340811-1	1	1	AH	C
	26	62481752	FPC/E577	E240553-1	1	1	BJ	B
	27	62481726	CHASSIS/KB E577	E340812-1	1	1	AT	C
			SCREW	3X8 ZMC-3	15	15		X
	28	62214932	SHEET/NO SLIP	E311590-1	1	1	AW	C
N	29	10104343	SHEET/MENU	E341031-6	1	1	AL	C
	5. Power supply block							
	30	62214802	CORD/POWER	M2511			BC	C
	31	37010242	CORD/POWER	MP5004	1		BO	C
	32	37004283	CORD/POWER	M3203			AZ	C
	33	10023027	CORD/POWER	PS204-A		1	AR	C
N	34	10104443	POWER SUPPLY	SPS-468	1	1	DN	A
~~N~~		~~94870806~~	~~FUSE~~	~~213 3.15~~	~~1~~	~~1~~		~~A~~
N		10017328	FUSE	213002	1	1	AD	A
			CONNECTOR	CE2	1	1		
	6. Upper case block							
N	35	10104622	BUSH/RDP E468	RJE500339-1	1	1	AC	C
			SCREW	S-WBPT-3X20ZC	2	2		X
			SCREW	S-WBPT-3X8ZC	19	19		X
N		10104383	SHEET/INSULATOR	RJE500396-1	1	1	AB	C
N	36	10104384	KEYTOP/F	RJE500397-1	1	1	AE	B
N	37	10104386	RUBBER/CONTACT	RJE500398-1	1	1	AI	B
N	38	10115540	CHASSIS/MODE KEY	RJE500481-1	1	1	BL	C
N	39	10104388	CASE/DISPLAY	RJE500406-1	1	1	BJ	C
N	40	10111059	KEY CABLE SUB ASSY	RJE500388*1	1	1	BN	C
N	41	10111063	KEY CABLE SUB ASSY	RJE500388*2	1	1	BF	C
N	42	10104390	COVER/HINGE	RJE500429-1	1	1	AO	C
N	43	10113482	CASE/UPPER	RJE500442-1	1	1	AV	C
			SCREW	S-PASEMA-3X6ZC	2	2		X
			SCREW	S-PASEMA-4X5ZC	3	3		X
			SCREW	S-PAMA-3X6B	2	2		X
~~N~~	~~44~~	~~10114135~~	~~COVER/MODE KEY~~	~~RJE500332-6~~	~~1~~	~~1~~		~~C~~
N	44	10121165	COVER/MODE KEY	RJE500440-6	1	1	BC	C
N		10115091	FG CABLE SUB ASSY	RJE500484*1	1	1	AB	C
N		10115092	FG CABLE SUB ASSY	RJE500484*2	1	1	AC	C
N		10115541	SHEET/BLIND	RJE500514-1	1	1	AG	C
N	45	10115542	PLATE/L HOOK	RJE500521-1	1	1	AP	C
N	46	10115543	PLATE/R HOOK	RJE500522-1	1	1	AR	C
~~N~~	~~47~~	~~10114419~~	~~COVER/PRINTER~~	~~RJE500325-1~~	~~1~~	~~1~~		~~C~~
N	47	10104419	COVER/PRINTER	RJE500325-1	1	1	BJ	C
~~N~~	~~48~~	~~10114420~~	~~COVER/JOURNAL~~	~~RJE500326-1~~	~~1~~	~~1~~		~~C~~
N	48	10104420	COVER/JOURNAL	RJE500326-1	1	1	AE	C
N	49	10104349	COVER/SHEET	RJE500395-1	1	1	AO	C
N	50	10115524	CYLINDER LOCK ASSY	E341056*2	1	1	AI	B
	51	62465000	KEY SET/PRINTER COVER	E412062*1	1	1	AG	B
			SCREW	S-BDMA-3X5NI	4	4		X
			SCREW	S-BDMA-4X12NI	1	1		X
			SCREW	S-BDMA-4X10B	1	1		X
N	52	10104365	SHEET/MODE MENU	RJE500350-2	1	1	AA	B
N	53	10104364	SHEET/SPACE MENU	RJE500350-1	1	1	AA	B

N	Item	Code No.	Parts Name	Specification	Q'ty		Price Code	Rank
					UK	USA/ Canada		
	7. LOWER CASE BLOCK							
N	**54**	1010 4438	CASE/LOWER E468	RJE500338-1	1	1		C
N	**55**	1010 4428	MAIN CHASSIS E468	RJE500304-1	1	1		C
N	**56**	1010 4436	SUB CHASSIS E468	RJE500305-1	1	1		C
	57	1005 4340	INLINE CABLE SUB ASSY	E440720*3	1	1	AE	C
N		1008 5156	DRAWER CABLE SUB ASSY	E440737*1	1	1		C
N	**58**	1010 4437	COVER/CF E468	RJE500311-1	1	1		C
N	**59**	1010 4444	CABLE/FFC JOINER BE468	E440657-11	1	1		C
N	**60**	1010 4429	CHASSIS/POWER SUPPLY	RJE500404-1	1	1		C
N	**61**	1010 4440	ARC CABLE SUB ASSY	RJE500386*1	1	1		C
N	**62**	1010 4439	COVER/POWER SWITCH	RJE500340-1	1	1		C
N		6247 2318	CABLE/FG	E310997-26	1	1		X
N	**63**	1011 4111	CHASSIS/GROUND	RJE500453-1	1	1		C
N	**64**	1011 4112	PLATE/CORD	RJE500448-1	1	1		C
N	**65**	1011 4113	CHASSIS/CONNECTOR	RJE500479-1	1	1		C
	66	6221 3892	ROLLER/E233	E411377-1	2	2	AA	B
			SCREW	N-HXT3-4ZC	2	2		X
			SCREW	S-WBPT-3X8ZC	11	11		X
			TIE/INSULOCK	T-18S	1	1		X
			SCREW	S-PASLMA-3X5ZC	6	6		X
			SCREW	S-PASLMA-4X5ZC	6	6		X
			SCREW	S-PASEMA-3X6ZC	6	6		X
			SCREW	S-PASEMA-4X5ZC	2	2		X
			SCREW	S-WBPT-4X10ZC	4	4		X
			CLIP	CS-4U	3	3		X
			SCREW	S-PASLMA-4X35ZC	2	2		X
			SCREW	S-BDMA-6X10NI	2	2		X
N		1011 4221	SPACER/E468	RJE500491-1	1	1		C
	67	3000 7581	FASTEN TAB	23031-2	1	1	AA	C
N	**68**	1011 4118	NUT/E468	RJE500451-1	2	2		C
			NUT	NO.4-40UNC(ZC)	2	2		X
			SCREW	JFS-4S-B1WM	2	2		X
N	**69**	1011 5094	COM CABLE SUB ASSY	RJE500478*1	1	1		C
N		1011 4126	LABEL/COM A-E468	RJE500494-1	1	1		X
N		1011 4127	LABEL/COM B-E468	RJE500495-1	1	1		X
N		1011 4128	LABEL/ARC E468	RJE500496-1	1	1		X
N	**70**	1010 4345	COVER/CONNECTOR	RJE500328-1	1	1		C
N		1011 4090	COVER/SWITCH	RJE500492-1	1	1		C
N		1011 5526	RUBBER/PAD	RJE500485-1	4	4		C
	8. PRINTER BLOCK							
N	**71**	9487 0779	FRAME UNIT/JOURNAL	1232726	1	1	CX	C
N	**72**	9487 0781	BELT/PAPER TAKE-UP	1231986	1	1	AD	B
N	**73**	9487 0780	SHAFT/PAPER ROLLING	1232732	1	1	AQ	B
N	**74**	9487 0773	FRAME UNIT/RECEIPT	1232684	1	1	CY	C
		* 74 There are 2 versions of the receipt printer. Please refer to the service bulletin ECR-543 for the details.						
N	**75**	9487 0774	SCREW	1018232	1	1	AA	X
N	**76**	9487 0775	CUTTER UNIT	1236376	1	1	BS	A
N	**77**	9487 0776	SCREW	1073844	2	2	AB	X
N	**78**	9487 0777	CUTTER/FIXED	1231681	1	1	BK	A
N	**79**	9487 0778	SPRING	1231999	1	1	AA	B
N	**80**	1011 4233	CHASSIS/PR L	RJE500466-1	1	1		C
N	**81**	1011 4234	CHASSIS/PR R	RJE500470-1	1	1		C
N	**82**	1011 4235	CHASSIS/PR C	RJE500474-1	1	1		C
N	**83**	1011 4236	CHASSIS/PR MOUNT	RJE500446-1	2	2		C
N	**84**	1011 4237	SHAFT/E468	RJE500450-1	2	2		C
			SCREW	S-PASLMA-3X5ZC	4	4		X
			SCREW	S-PAMA-3X5ZC	6	6		X
N	**85**	1011 4238	E-RING	R-ER-3TCBL	4	4		C
N	**86**	1011 3437	COVER/PR PROTECT	RJE500467-1	1	1		C
N	**87**	1010 4346	COVER/CUTTER	RJE500329-1	1	1		C
	9. CLERK SWITCH CIRCUIT							
N	**88**	1010 4389	PCB ASSY/E468-E6	RJE500416*1	1	1		B
	IC1,2,5	1000 5662	IC/CMOS	SN74LV374APWR	3	3	AF	A
	IC3,4,6	2112 0823	IC	BA12003BF-E2	3	3	AF	A

N	Item	Code No.	Parts Name	Specification	Q'ty		Price Code	Rank
					UK	USA/ Canada		
	R1,2,7		RESISTOR/CHIP	MCR03EZHJ000	3	3		X
	R11-13,15-21, 24-30		RESISTOR/CHIP	MCR03EZHJ101	17	17		X
	R3,5,8,10,22		RESISTOR/CHIP	MCR03EZHJ103	5	5		X
	R4,6,9,14,23		RESISTOR/CHIP	MCR03EZHJ471	5	5		X
	RM1-5	27753288	RESISTOR/CHIP NETWORK	MNR14E0ABJ103	5	5	AA	C
	C2,4,6		CAPACITOR/CHIP	GRM1882C1H101JA01D	3	3		X
	C1,3,5		CAPACITOR/CHIP	GRM188B11E104KA01D	3	3		X
	C7	28073647	CAPACITOR/ELECTROLYTIC	RV2-16V101MS-R	1	1	AA	C
	D1-15	10009218	DIODE/CHIP	1SS400TE61	15	15	AA	B
	Q1-5	22501603	TRANSISTOR/CHIP	2SB1182TLQR	5	5	AC	B
	CN2	35405184	CONNECTOR	HFW10S-2STE1	1	1	AB	C
	CN1	35405185	CONNECTOR	HFW12S-2STE1	1	1	AB	C
N	CN6	10105680	CONNECTOR	HFW4R-2STE1	1	1	AF	C
	CN5	35405190	CONNECTOR	SFW27R-5STE1	1	1	AE	C
	SW1-10	34121029	SWITCH/TACT	SKHHAL	10	10	AA	B
	CN3	35017728	CONNECTOR	B14B-PHDSS	1	1	AB	C
	CN4	35802364	CONNECTOR	B30B-PHDSS	1	1	AE	C
	10. Connector board							
N	**89**	10105423	PCB/E468-CNB1	RJE500415-1	1	1	AD	C
N	CN1	10105422	CONNECTOR	HLW25R-2C7	1	1	AE	C
	CN2-4	30007917	CONNECTOR	ID9P33E4GX28	3	3	AK	C
	11. ARCNET In-line board							
N	**90**	10105420	PCB/E468-ARC	RJE500412-1	1	1	AF	C
N	IC1	10105419	IC	HYC2000	1	1	BV	A
	R5	10074510	REGISTOR/CHIP	RD25SM10-6101J	1	1	AA	X
N	R3,4	10082973	REGISTOR/CHIP	RD25SM10-6154J	1	1	AA	X
N	C1	10073686	CAPACITOR	ECQ-V1H104JZW	1	1	AD	X
	C2	10073688	CAPACITOR/ELECTROLYTIC	RE3-16V470M	1	1	AA	C
	C3,4	10074512	CAPACITOR	DEA1X3A180JC1B	2	2	AA	X
N	CN2,3	35020073	CONNECTOR	TM5RJ3-88	2	2	AT	C
N	SW1	10105421	SLIDE SWITCH	SSSU111400	1	1	AI	C
	CN1	35016307	CONNECTOR	S5B-PH-K-S	1	1	AA	C
	12. Other							
N	**91**	10103367	BATTERY/LITHIUM	VL3032/SGB	1	1	CQ	A
		10029671	SCREW/DLAWER	E441149-1	2	2	AF	C

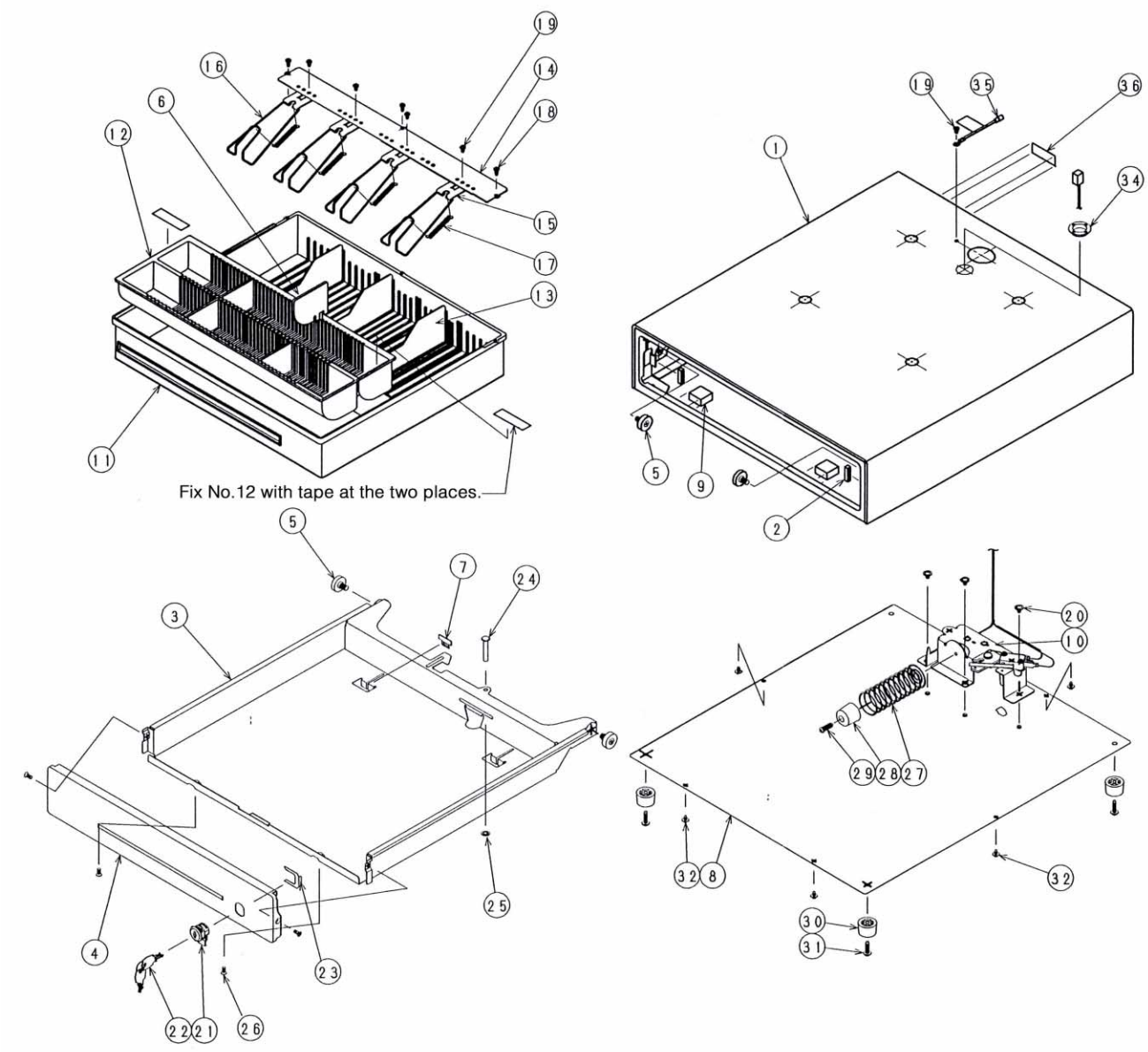
13. DRAWER (DL-2424)



DL-2424 (M type)

N	Item	Code No.	Parts Name	Specification	Qt'y	Price	Rank
	1		CASE/MAIN	ZD65310	1	NOT SUPPLY	X
N	2	19068961	STOPPER	ZD48117	2	AC	C
N	3	94870790	DRAWER SUB ASSY	ZD65320	1	BQ	X
N	4	94870791	FRONT PANEL	ZD65321	1	BI	X
	5	19026842	ROLLER/DERLIN	DR-19B	4	AH	B
N	6	94870792	PLATE/COIN PARTITION	ZD63953	3	AC	C
N	7	94870793	EARTH/BRUSH	ZD48124	1	AF	X
N	8	19068964	PLATE/BOTTOM	ZD48130	1	BT	X
N	9	94870794	RUBBER/STOPPER	ZD48132	2	AC	X
	10	19064040	LOCK ASSY(WITH SWITCH)	ZD48160	1	BY	B
N		94870802	SOLENOID ASSY	ZD48161-A	1	CI	B
N		94870803	LOCK SUB ASSY	ZD48145	1	BE	C
N		94870804	SPRING/LOCK	ZD48142	1	AC	C
		30007231	MICRO SWITCH	V-103-1A5	1	BE	B
N	11	94870795	CASE/BILL	ZD63951	1	BR	X
N	12	94870796	CASE/COIN	ZD63952	1	BM	X
	13	19076265	PLATE/BILL PARTITION	ZV35442	4	AN	C
	14	19076264	BRACKET/BILL HOLDER	ZD08545-1	1	AK	X
	15	19070141	STOPPER/BILL HOLDER	ZV27040-1	5	AB	C
	16	19027084	HOLDER/BILL	ZD02041	5	AF	C
N	17	94870797	SPRING/BILL HOLDER	ZD52853	5	AC	C
	18	19026987	SCREW	M3X8	3	AA	X
	19	19027093	SCREW	M3X6	6	AA	X
	20	19027098	SCREW	M4X6	3	AA	X
	21	62214900	LOCK/CYLINDER	ZD20025	1	BD	C
	22	55000976	KEY/CYLINDER LOCK	ZD20025-1	1	AJ	C
	23	19081325	CLIP	ZD20025-2	1	AC	C
	24	19064150	RIVET	5X30	1	AA	X
	25	55801452	RING/CS	CSTW-5	1	AA	X
	26	19060684	SCREW	M3.5X8	4	AA	X
N	27	19068968	SPRING	ZD08746	1	AG	C
	28	19076277	RUBBER/DAMPER	K2320	1	AC	X
	29	19070234	SCREW	M4X16	1	AA	X
	30	19070118	FOOT/RUBBER	ZD01013-A	4	AB	X
	31	19070234	SCREW	M4X16	4	AA	X
	32	19060691	SCREW	M3X5	6	AA	X
	33	19027112	GROMET	B-1	1	AB	X
	34	19083378	WIRE/FG	ZD31660	1	AL	X
N	35	94870798	LABEL	DL-2424	1	AB	X

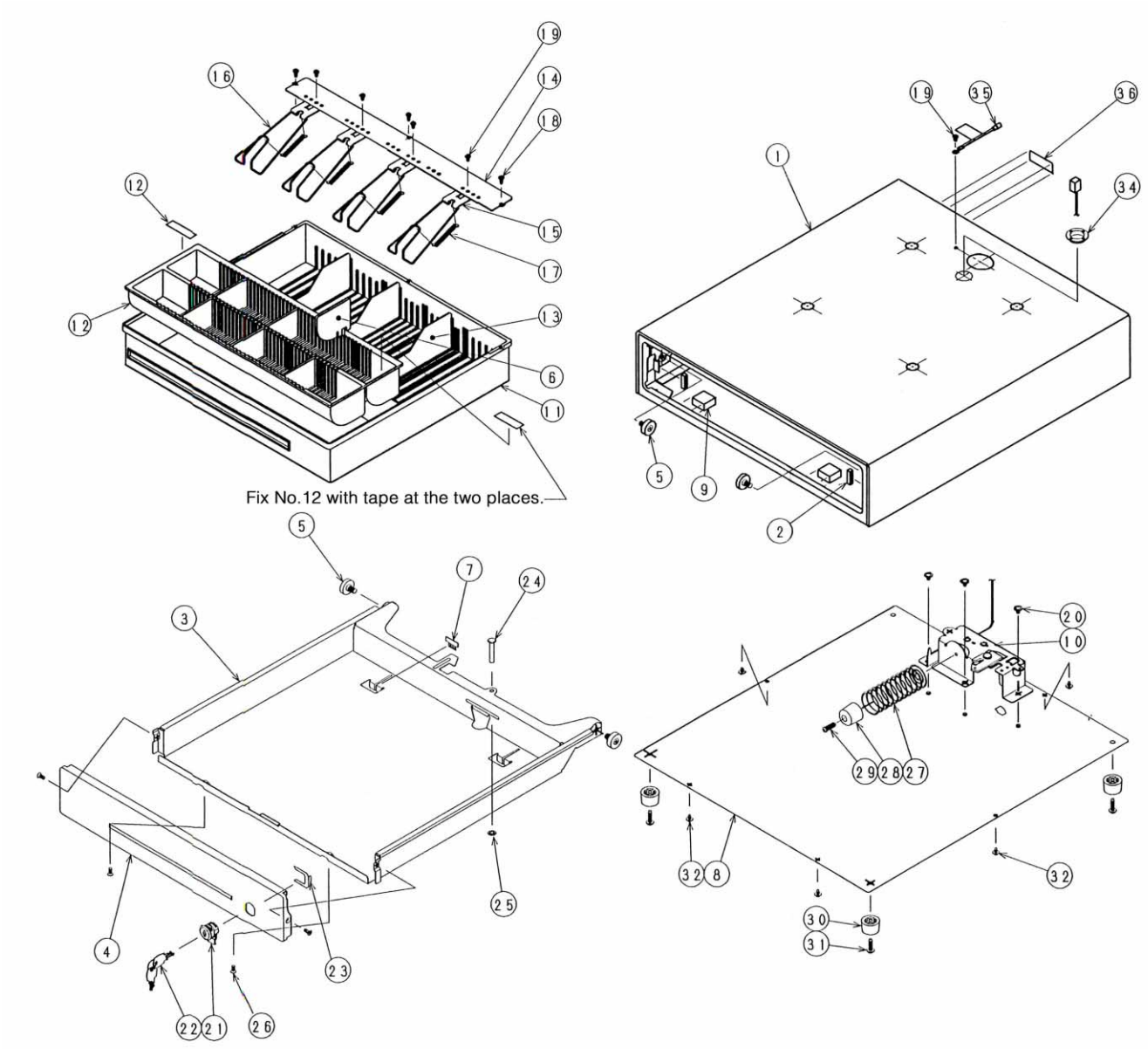
14. DRAWER (DL-2524)



DL-2524 (M type)

N	Item	Code No.	Parts Name	Specification	Qt'y	Price	Rank
	1		CASE/MAIN	ZD65310	1	NOT SUPPLY	X
N	2	19068961	STOPPER	ZD48117	2	AC	C
N	3	94870790	DRAWER SUB ASSY	ZD65320	1	BQ	X
N	4	94870791	FRONT PANEL	ZD65321	1	BI	X
	5	19026842	ROLLER/DERLIN	DR-19B	4	AH	B
N	6	94870792	PLATE/COIN PARTITION	ZD63953	4	AC	C
N	7	94870793	EARTH/BRUSH	ZD48124	1	AF	X
	8	19068964	PLATE/BOTTOM	ZD48130	1	BT	X
N	9	94870794	RUBBER/STOPPER	ZD48132	2	AD	X
	10	19064040	LOCK ASSY(WITH SWITCH)	ZD48160	1	BY	B
N		94870802	SOLENOID ASSY	ZD48161-A	1	CI	B
N		94870803	LOCK SUB ASSY	ZD48145	1	BE	C
N		94870804	SPRING/LOCK	ZD48142	1	AC	C
		30007231	MICRO SWITCH	V-103-1A5	1	BE	B
N	11	94870795	CASE/BILL	ZD63951	1	BR	X
N	12	94870796	CASE/COIN	ZD63952	1	BM	X
	13	19076265	PLATE/BILL PARTITION	ZV35442	3	AN	C
	14	19076264	BRACKET/BILL HOLDER	ZD08545-1	1	AK	X
	15	19070141	STOPPER/BILL HOLDER	ZV27040-1	4	AB	C
	16	19027084	HOLDER/BILL	ZD02041	4	AF	C
N	17	94870797	SPRING/BILL HOLDER	ZD52853	4	AC	C
	18	19026987	SCREW	M3X8	3	AA	X
	19	19027093	SCREW	M3X6	5	AA	X
	20	19027098	SCREW	M4X6	3	AA	X
	21	62214900	LOCK/CYLINDER	ZD20025	1	BD	C
	22	55000976	KEY/CYLINDER LOCK	ZD20025-1	1	AJ	C
	23	19081325	CLIP	ZD20025-2	1	AC	C
	24	19064150	RIVET	5X30	1	AA	X
	25	55801452	RING/CS	CSTW-5	1	AA	X
	26	19060684	SCREW	M3.5X8	4	AA	X
	27	19068968	SPRING	ZD08746	1	AG	C
	28	19076277	RUBBER/DAMPER	K2320	1	AC	X
	29	19070234	SCREW	M4X16	1	AA	X
	30	19070118	FOOT/RUBBER	ZD01013-A	4	AB	X
	31	19070234	SCREW	M4X16	4	AA	X
	32	19060691	SCREW	M3X5	6	AA	X
	33	19027112	GROMET	B-1	1	AB	X
	34	19083378	WIRE/FG	ZD31660	1	AL	X
N	35	94870800	LABEL	DL-2524	1	AB	X

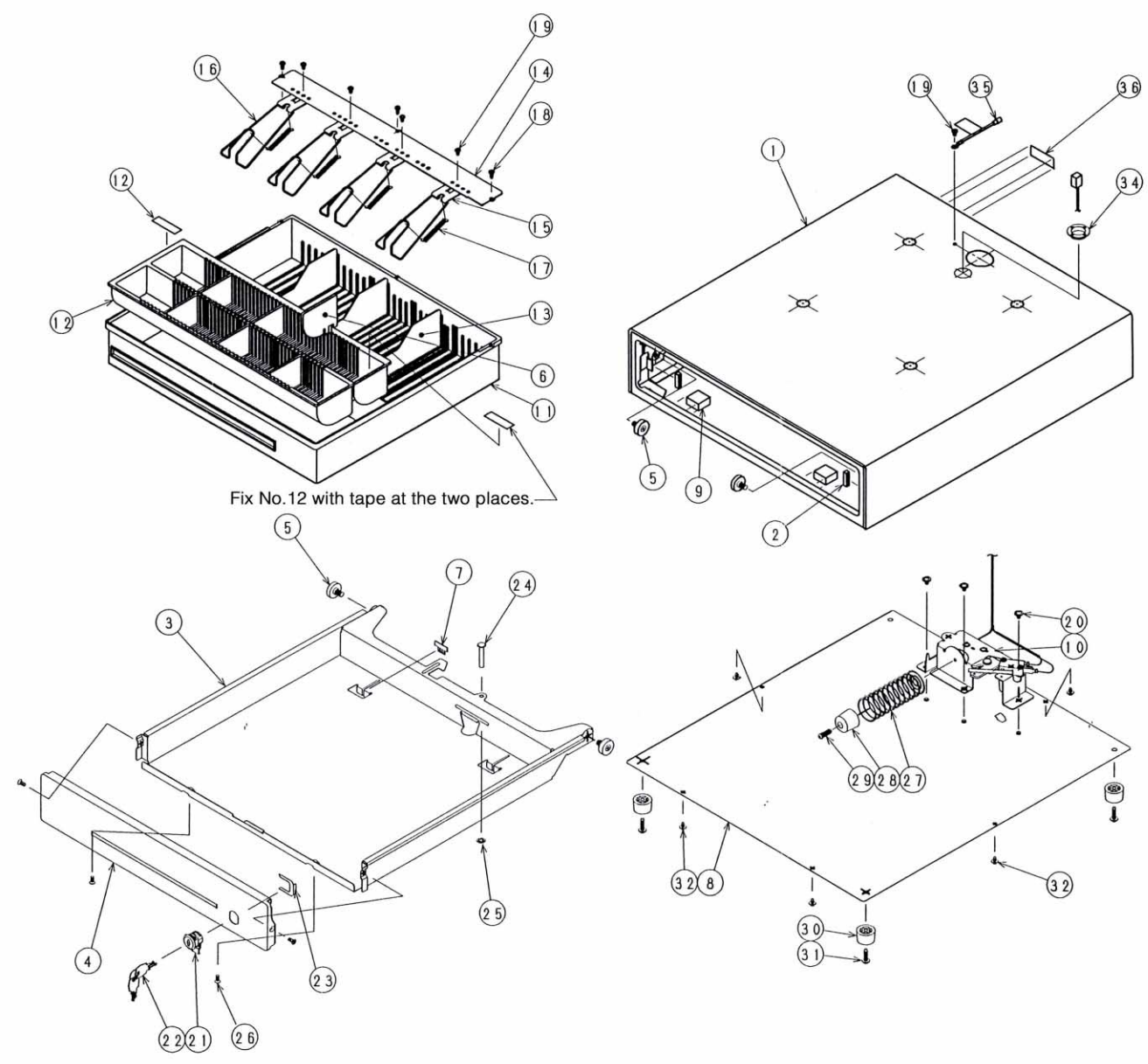
15. DRAWER (DL-2783)



DL-2783 (M type)

N	Item	Code No.	Parts Name	Specification	Qt'y	Price	Rank
	1		CASE/MAIN	ZD65310	1	NOT SUPPLY	X
	2	19068961	STOPPER	ZD48117	2	AC	C
N	3	94870790	DRAWER SUB ASSY	ZD65320	1	BQ	X
N	4	94870791	FRONT PANEL	ZD65321	1	BI	X
	5	19026842	ROLLER/DERLIN	DR-19B	4	AH	B
N	6	94870792	PLATE/COIN PARTITION	ZD63953	6	AC	C
N	7	94870793	EARTH/BRUSH	ZD48124	1	AF	X
	8	19068964	PLATE/BOTTOM	ZD48130	1	BT	X
N	9	94870794	RUBBER/STOPPER	ZD48132	2	AC	X
	10	19081296	LOCK ASSY	ZD48140	1	BP	B
N		94870805	SOLENOID ASSY	ZD48141	1	CA	B
N		94870803	LOCK SUB ASSY	ZD48145	1	BE	C
N		94870804	SPRING/LOCK	ZD48142	1	AC	C
N	11	94870795	CASE/BILL	ZD63951	1	BR	X
N	12	94870796	CASE/COIN	ZD63952	1	BM	X
	13	19076265	PLATE/BILL PARTITION	ZV35442	3	AN	C
	14	19076264	BRACKET/BILL HOLDER	ZD08545-1	1	AK	X
	15	19070141	STOPPER/BILL HOLDER	ZV27040-1	4	AB	C
	16	19027084	HOLDER/BILL	ZD02041	4	AF	C
N	17	94870797	SPRING/BILL HOLDER	ZD52853	4	AC	C
	18	19026987	SCREW	M3X8	3	AA	X
	19	19027093	SCREW	M3X6	5	AA	X
	20	19027098	SCREW	M4X6	3	AA	X
	21	62214900	LOCK/CYLINDER	ZD20025	1	BD	C
	22	55000976	KEY/CYLINDER LOCK	ZD20025-1	1	AJ	C
	23	19081325	CLIP	ZD20025-2	1	AC	C
	24	19064150	RIVET	5X30	1	AA	X
	25	55801452	RING/CS	CSTW-5	1	AA	X
	26	19060684	SCREW	M3.5X8	4	AA	X
	27	19068968	SPRING	ZD08746	1	AG	C
	28	19076277	RUBBER/DAMPER	K2320	1	AC	X
	29	19070234	SCREW	M4X16	1	AA	X
	30	19070118	FOOT/RUBBER	ZD01013-A	4	AB	X
	31	19070234	SCREW	M4X16	4	AA	X
	32	19060691	SCREW	M3X5	6	AA	X
	33	19027112	GROMET	B-1	1	AB	X
	34	19083378	WIRE/FG	ZD31660	1	AL	X
N	35	94870799	LABEL	DL-2783	1	AB	X

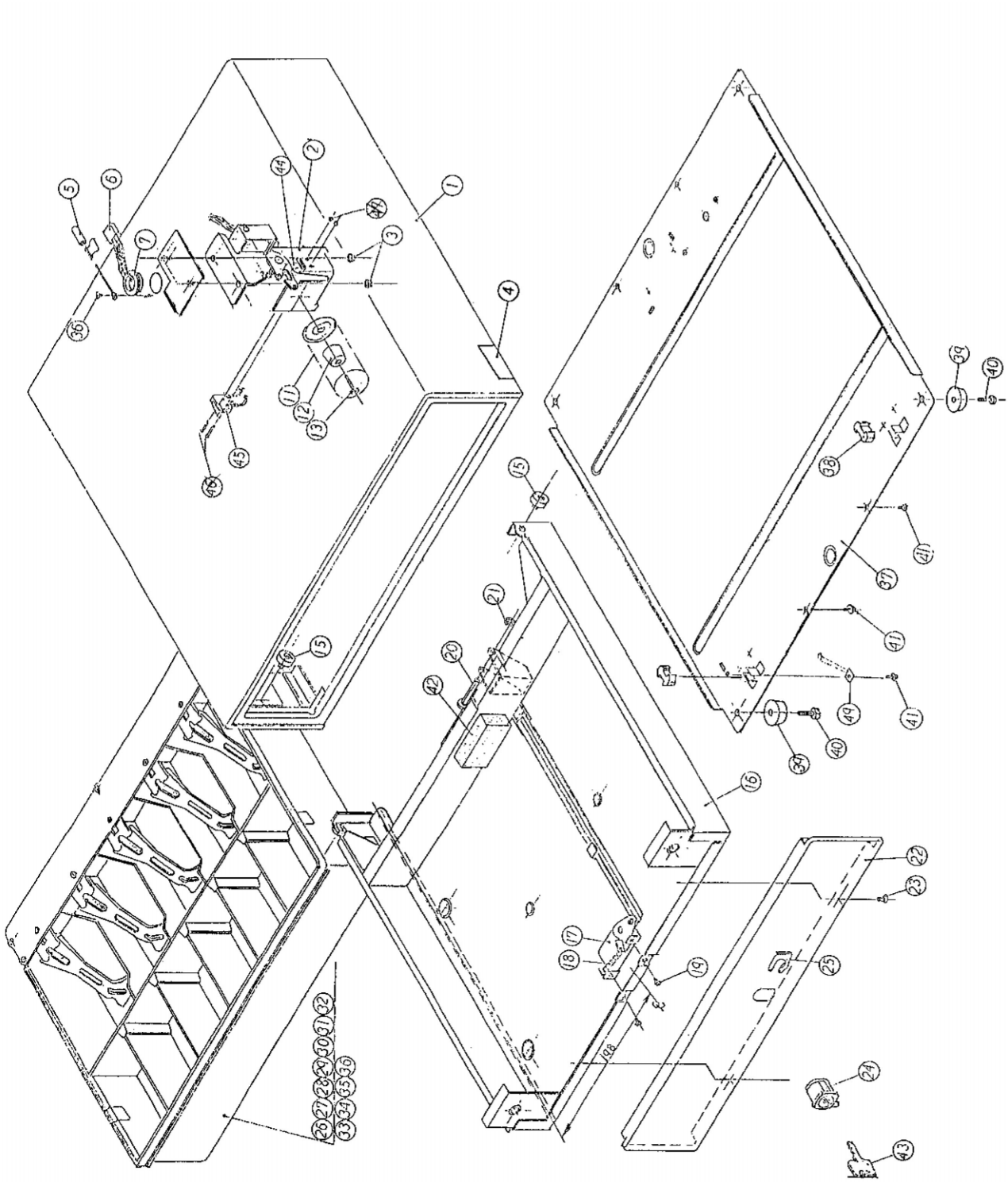
16. DRAWER (DL-2784)



DL-2784 (M type)

N	Item	Code No.	Parts Name	Specification	Qt'y	Price	Rank
	1		CASE/MAIN	ZD65310	1	NOT SUPPLY	X
	2	19068961	STOPPER	ZD48117	2	AC	C
N	3	94870790	DRAWER SUB ASSY	ZD65320	1	BQ	X
N	4	94870791	FRONT PANEL	ZD65321	1	BI	X
	5	19026842	ROLLER/DERLIN	DR-19B	4	AH	B
N	6	94870792	PLATE/COIN PARTITION	ZD63953	6	AC	C
N	7	94870793	EARTH/BRUSH	ZD48124	1	AF	X
	8	19068964	PLATE/BOTTOM	ZD48130	1	BT	X
N	9	94870794	RUBBER/STOPPER	ZD48132	2	AC	X
	10	19064040	LOCK ASSY(WITH SWITCH)	ZD48160	1	BY	B
N		94870802	SOLENOID ASSY	ZD48161-A	1	CI	B
N		94870803	LOCK SUB ASSY	ZD48145	1	BE	C
N		94870804	SPRING/LOCK	ZD48142	1	AC	C
		30007231	MICRO SWITCH	V-103-1A5	1	BE	B
N	11	94870795	CASE/BILL	ZD63951	1	BR	X
N	12	94870796	CASE/COIN	ZD63952	1	BM	X
N	13	19076265	PLATE/BILL PARTITION	ZV35442	4	AN	C
	14	19076264	BRACKET/BILL HOLDER	ZD08545-1	1	AK	X
	15	19070141	STOPPER/BILL HOLDER	ZV27040-1	4	AB	C
	16	19027084	HOLDER/BILL	ZD02041	4	AF	C
N	17	94870797	SPRING/BILL HOLDER	ZD52853	4	AC	C
	18	19026987	SCREW	M3X8	3	AA	X
	19	19027093	SCREW	M3X6	5	AA	X
	20	19027098	SCREW	M4X6	3	AA	X
	21	62214900	LOCK/CYLINDER	ZD20025	1	BD	C
	22	55000976	KEY/CYLINDER LOCK	ZD20025-1	1	AJ	C
	23	19081325	CLIP	ZD20025-2	1	AC	C
	24	19064150	RIVET	5X30	1	AA	X
	25	55801452	RING/CS	CSTW-5	1	AA	X
	26	19060684	SCREW	M3.5X8	4	AA	X
	27	19068968	SPRING	ZD08746	1	AG	C
	28	19076277	RUBBER/DAMPER	K2320	1	AC	X
	29	19070234	SCREW	M4X16	1	AA	X
	30	19070118	FOOT/RUBBER	ZD01013-A	4	AB	X
	31	19070234	SCREW	M4X16	4	AA	X
	32	19060691	SCREW	M3X5	6	AA	X
	33	19027112	GROMET	B-1	1	AB	X
	34	19083378	WIRE/FG	ZD31660	1	AL	X
N	35	94870801	LABEL	DL-2784	1	AB	X

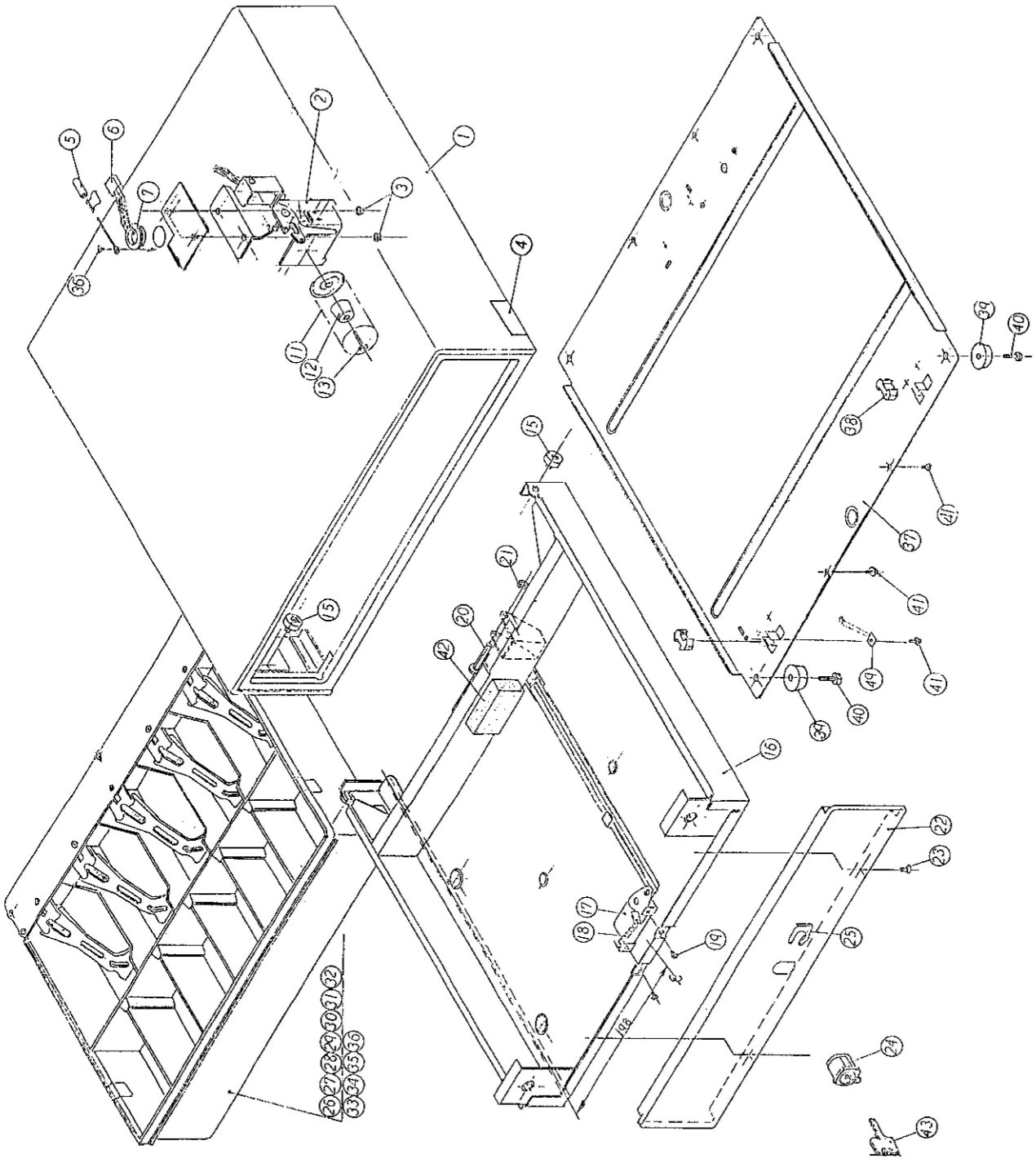
17. DRAWER (DL-3616)



DL-3616 (L type) USA, Canada

N	Item	Code No.	Parts name	Specificatior	Q'ty	Price Code	RANK
	2	19077272	LOCK ASSY	ZD00290-0	1	BZ	B
	3	19060672	NUT	M4XP0.7	2	AA	X
	4	94870383	LABEL	DL-3616	1	AL	X
	5	19079613	WIRE/FG	ZD31670	1	AI	X
	6	19070223	CONNECTOR	1625-03PI	1	AL	X
	7	19027112	GROMET	B-1	1	AB	X
	11	19027076	SPRING	ZD01370B	1	AC	C
	12	19026829	RUBBER/DAMPER	K2320	1	AC	X
	13	19070234	SCREW/TAPPING	M4X16	1	AA	X
	15	19026842	ROLLER/DERLIN	DR-19B	4	AH	B
	16	19060679	DRAWER SUB ASSY	ZD58120	1	CF	X
	17	19026992	LEVER/OPEN	ZD00250	1	AN	X
	18	19077930	SPRING/OPEN LEVER	ZD00254	1	AB	C
	19	19060680	SCREW/TAPPING	M3X4	2	AA	X
	20	19064150	RIVET	PAI5X30	1	AA	X
	21	55801452	RING/CS	CSTW-5	1	AA	X
	22	19060683	PANEL/FRONT	ZD56721	1	BH	X
	23	19060684	SCREW/TAPPING	M3.5X8	2	AA	X
	24	19027027	KEY/CYLINDER	ZD00226	1	BB	C
	25	19077928	CLIP	ZD00226-2	1	AJ	X
	26	19060685	CASE/BILL	ZD04851	1	BO	C
	27	19077926	CASE/COIN	ZD04843PS	1	BN	C
	28	19077925	PLATE/BILL PARTITION	ZD04842	4	AH	C
	29	19077924	PLATE/COIN PARTITIO	ZD04844	5	AD	C
	30	19077923	HOLDER/PARTITION PL	ZD04845	5	AC	X
	31	19026991	PLATE/BILL HOLDER F	ZD00245	1	AK	X
	32	94870385	STOPPER/BILL HOLDE	ZV27041-1	5	AE	X
	33	62214902	HOLDER/BILL	ZD18931	5	AC	B
	34	62214904	SPRING/BILL HOLDER	ZD18932	5	AB	B
	35	19026987	SCREW/TAPPING	M3X8	5	AA	X
	36	19027093	SCREW/TAPPING	M3X6	6	AA	X
	37	19077922	PLATE/BOTTOM	ZD18031	1	CB	X
	38	19060689	RUBBER/DAMPER	ZD02032	2	AE	X
	39	19027046	FOOT/RUBBER	K3215	4	AJ	X
	40	19070234	SCREW/TAPPING	M4X16	4	AA	X
	41	19060691	SCREW/TAPPING	M3X5	5	AA	X
	42	19077920	CUSHION	ZD05422	1	AE	X
	43	19026214	KEY	ZD00226-1	1	AU	C
	44	19077943	LEVER/SWITCH	ZD00283	1	AL	C
	45	19077942	SWITCH/MICRO	SS-01GL-ET	1	BF	B
	49	19079615	EARTH/SPRING	ZD02162C	1	AE	C

18. DRAWER (DL-3617)



DL-3617 (L type) Saudi-Arabia

N	Item	Code No.	Parts name	Specification	Q'ty	Price Code	RANK
	2	19077935	LOCK ASSY	ZD00280-0	1	BT	B
	3	19060672	NUT	M4XP0.7	2	AA	X
	4	94870384	LABEL	DL-3617	1	AL	X
	5	19079613	WIRE/FG	ZD31670	1	AI	X
	6	19070223	CONNECTOR	1625-03PI	1	AL	X
	7	19027112	GROMET	B-1	1	AB	X
	11	19027076	SPRING	ZD01370B	1	AC	C
	12	19026829	RUBBER/DAMPER	K2320	1	AC	X
	13	19070234	SCREW/TAPPING	M4X16	1	AA	X
	15	19026842	ROLLER/DERLIN	DR-19B	4	AH	B
	16	19060679	DRAWER SUB ASSY	ZD58120	1	CF	X
	17	19026992	LEVER/OPEN	ZD00250	1	AN	X
	18	19077930	SPRING/OPEN LEVER	ZD00254	1	AB	C
	19	19060680	SCREW/TAPPING	M3X4	2	AA	X
	20	19064150	RIVET	PAI5X30	1	AA	X
	21	55801452	RING/CS	CSTW-5	1	AA	X
	22	19060683	PANEL/FRONT	ZD56721	1	BH	X
	23	19060684	SCREW/TAPPING	M3.5X8	2	AA	X
	24	19027027	KEY/CYLINDER	ZD00226	1	BB	C
	25	19077928	CLIP	ZD00226-2	1	AJ	X
	26	19060685	CASE/BILL	ZD04851	1	BO	C
	27	19077926	CASE/COIN	ZD04843PS	1	BN	C
	28	19077925	PLATE/BILL PARTITION	ZD04842	4	AH	C
	29	19077924	PLATE/COIN PARTITIO	ZD04844	5	AD	C
	30	19077923	HOLDER/PARTITION PL	ZD04845	5	AC	X
	31	19026991	PLATE/BILL HOLDER F	ZD00245	1	AK	X
	32	94870385	STOPPER/BILL HOLDE	ZV27041-1	5	AE	X
	33	62214902	HOLDER/BILL	ZD18931	5	AC	B
	34	62214904	SPRING/BILL HOLDER	ZD18932	5	AB	B
	35	19026987	SCREW/TAPPING	M3X8	5	AA	X
	36	19027093	SCREW/TAPPING	M3X6	6	AA	X
	37	19077922	PLATE/BOTTOM	ZD18031	1	CB	X
	38	19060689	RUBBER/DAMPER	ZD02032	2	AE	X
	39	19027046	FOOT/RUBBER	K3215	4	AJ	X
	40	19070234	SCREW/TAPPING	M4X16	4	AA	X
	41	19060691	SCREW/TAPPING	M3X5	5	AA	X
	42	19077920	CUSHION	ZD05422	1	AE	X
	43	19026214	KEY	ZD00226-1	1	AU	C
	49	19079615	EARTH/SPRING	ZD02162C	1	AE	C

Ver.1 : • DIAGNOTIC OPERATION
Correction of Operation code (P55, P60)
• Correction of erratum (P60)

Ver.2 : Correction of page 111,112,113,122,123 and 133

Ver.3 : Aug. 2009
• Correction of the PARTS LIST (P105, 113, 116, 124, 127 and 134)

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